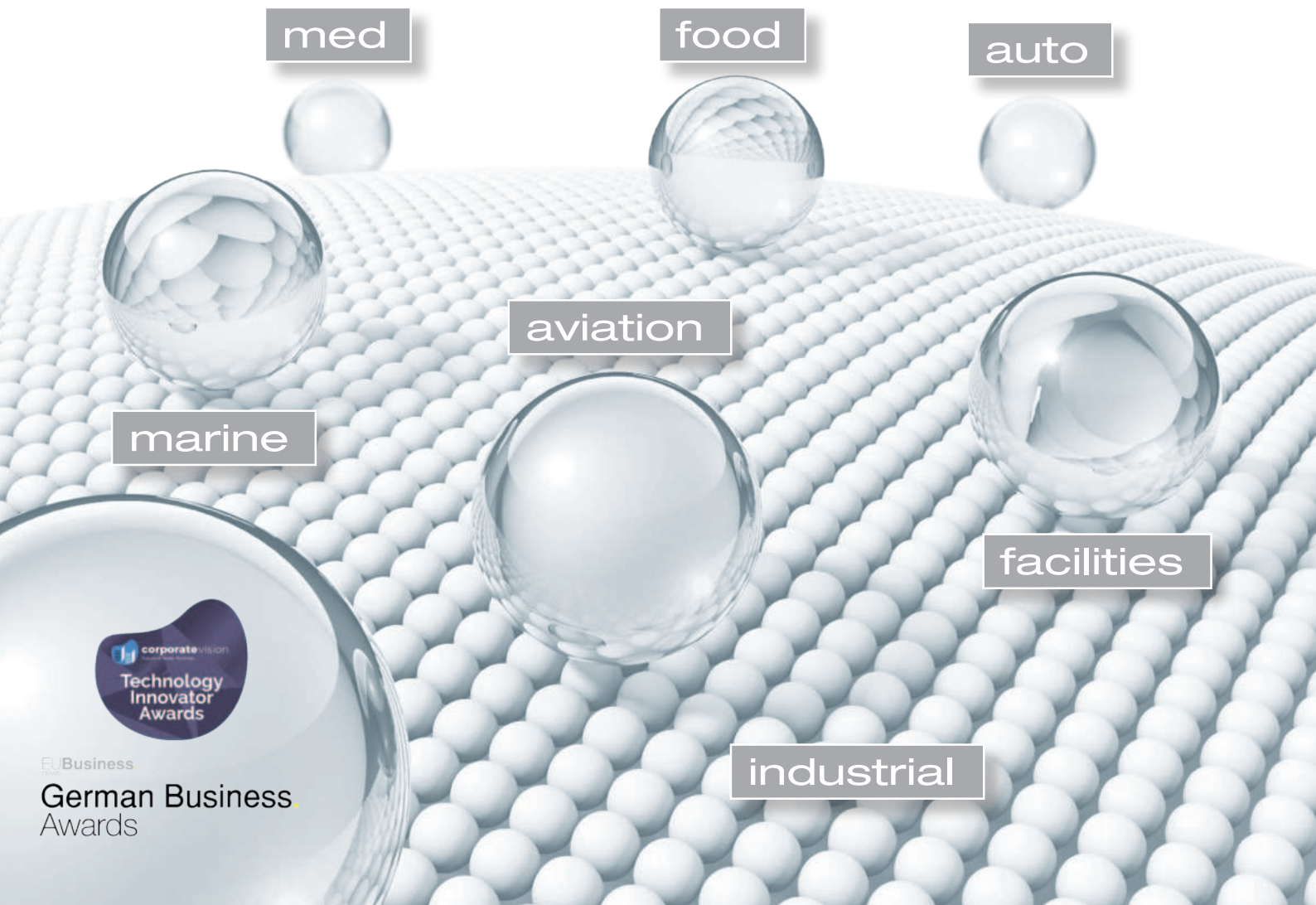
CCM®

Creative Chemical Manufacturer

Liquid Glass Coatings

Clean. Coat. Protect.



corporatevision Technology Innovator Awards

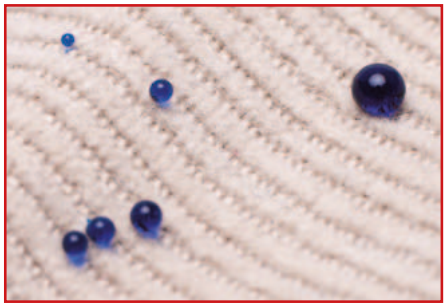
EUBusiness German Business. Awards

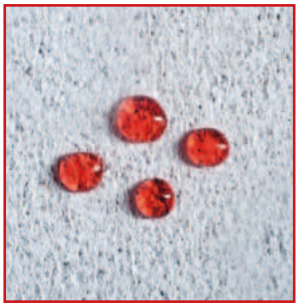
About us

Liquid Glass is an exceptional, truly remarkable, multi award winning technology which allows the end user to protect both industrial and domestic surfaces with ultra-thin super durable coating of invisible, easy to clean, glass.

In essence the technology allows the end user to deposit a nano scale layer of molecular, particle free glass (500 times thinner than a human hair), onto the surface of most items. The molecules of glass (silicon dioxide/ SiO^2) come from pure quartz sand, of which there are vast reserves, as silicon dioxide is one of the most abundant compounds on the planet. Just like domestic glass the coatings are chemically inert and highly resistant to commonly used cleaning chemicals. The coatings also offer resistance to alkalis, acids and solvents; however, despite some similarities to standard glass the Liquid Glass coatings are stunningly different. The layer is flexible, breathable, highly durable, heat tolerant, anti-microbial and offers non-stick and “easy clean” characteristics. The application of the Liquid Glass range of products is amazingly straight forward. After preparatory cleaning, items such as wash basins, windscreens, and fabrics can be coated in a matter of seconds. Significantly most coated surfaces can be cleaned with water alone, this of course massively reduces the use of environmentally damaging cleaning products.

CCM has been involved with the development and marketing of Liquid Glass technology since 2003 and as a result we offer unrivalled experience in the supply, packaging and worldwide distribution of this technology. We are currently support projects in over 50 countries.





CCM®
Creative Chemical Manufacturers

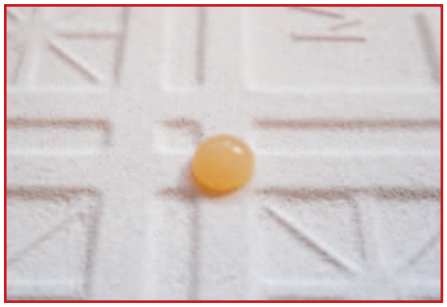
www.ccm-international.eu

Liquid Glass technology - the story so far!

It all started in Paris in 1845, when J.J. Ebelmen, a French scientist first discovered the Sol Gel process. In simple terms, he discovered that by manipulating a liquid which contained silica he could create glass. This was a very interesting theoretical discovery but at this time all that he was left with was small lumps of glass which were of no specific use. The next major step came in 1939 when the Schott Glaswerke company of Germany started to re-examine the technology. After a further 20 years of research they started to produce the first items coated with * SiO^2; however the processes were still complex and expensive. Evidently continued R+D was called for! Whilst the world was focussing on the space race, the computer revolution and the genome projects, the scientific community in Germany was creating “liquid glass technology” which could be applied on a DIY basis. The target being, to produce an undetectable coating, which could protect and enhance almost any surface. At the start of the millennium such coatings became available for the first time and we are proud to say that we were involved in their launch to a wide range of markets.

A.L.G.T. (Advanced Liquid Glass Technology). It has now been over 150 years since the discovery of the Sol Gel process and advances are continually being made. We are now able to bring you the 3rd Generation of Liquid Glass Technology via which we offer more efficient coatings, at reduced cost to the consumer. We also develop new technologies and technical coatings which are in the micron scale. These are used in a wide range of demanding environments, such as the marine, auto and aviation sectors. In essence A.L.G.T. is the culmination of 150 years of development. Where will be in another 150 years? Obviously we do not know the answer to this question ... but we do know that we offer state of the art technology for the world of today.

**Silica (silicon dioxide or SiO^2) is one of the most common chemical compounds.*



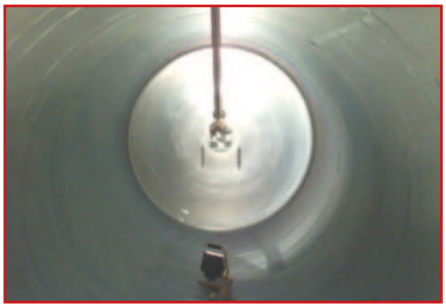
CCM® Creative Chemical Manufacturers

Our product sectors

The following areas of application represent the main divisions within our organisation. The simple message is, “we can protect almost everything”.

food

SiO^2, ultra thin coating technology has been described as “one of the world’s most versatile technologies”; and when you consider that it is easy to apply, heat tolerant, flexible, breathable, highly durable, environmentally friendly, chemically inert, food safe, low cost and anti-bacterial, you can see why this comment has been made. SiO^2 has been used as a food additive for many years.



Interior of a milk Tanker coated with SiO^2.

It is commonly used in products such as toothpaste, ketchup, and beer; however we now find that its greatest value to the food industry is when it is used as a surface coating. Surfaces which are coated with SiO^2 offer anti-sticking, easy clean, stain proofing and biostatic characteristics. SiO^2 coatings have already been evaluated by leading food manufacturers. As SiO^2 is inherently food safe and inert, it provides the ideal coating for food production plants, butchery departments, storage vessels, kitchen implements and food handling surfaces.

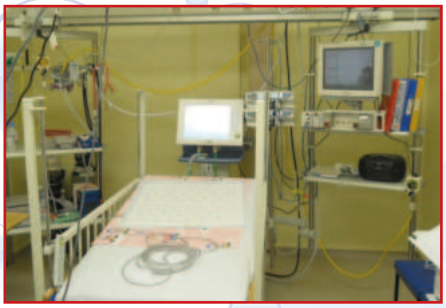
industrial

We are contacted on a daily basis by companies wishing to know if an SiO^2 coating will be suitable for application to their product or general working environment. In essence our coatings can be applied to almost any surface, and in most instances we have an “off the shelf” solution to most requests; from ***A***battoirs to ***Z***oological specimen protection, we can offer a coating. It should be stressed that not all of our coatings are at the nano scale. Some of our coatings are in the 10 micron range. A nano scale coating is ideal if you wish to coat optical lenses but if you wish to coat flooring in a supermarket then a thicker coating may be more suitable. In all instances our self application coatings are low cost and very easy to work with.

med

SiO^2 coatings have been tested extensively in the UK medical sector and Neil McClelland, our Technical Director, has been responsible for promoting the use of SiO^2 coatings within the UK’s National Health Service. He has presented extensively in the UK and was a guest speaker at the world famous IOM3 (Institute of Materials, Minerals and Mining). Testing has conclusively proven that SiO^2 coatings are of

CCM® Creative Chemical Manufacturers

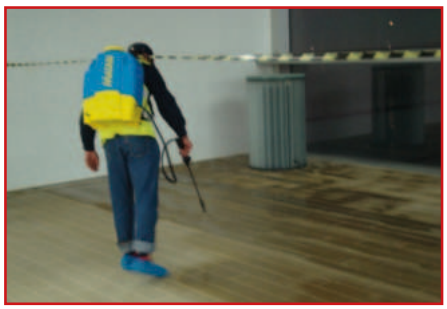


Hospital ward coated with SiO^2.

enormous significance to the health sector. In simple terms the coatings can be used to create environments in which the bio burden is massively reduced and coated surfaces are exceptionally easy to clean. SiO^2 coatings and our anti-pathogen technologies can be used on almost all surfaces within the Healthcare sector, this includes clothing, stethoscopes, surgical instruments, walls, floors, operating theatres, bedside tables, touch screens, mobile devices etc. There are literally hundreds of surfaces which can be coated within a hospital, dental surgery or similar environment.

facilities

We offer coatings for railway stations, hotels, schools, shopping centres, supermarkets, escalators, etc. Not only do we offer fantastic coatings for these facilities but we offer coatings for almost all of the surfaces within the facility. From anti-graffiti coatings on the outside to anti-bac coatings for ATMs on the inside. We also offer a complete range of stone protection coatings. These easy to apply, water based, topographical coatings, which are of course highly durable and breathable, are suitable for use on floors, monuments, work surfaces and of course interior and exterior walls. They are available in coatings which range from 50 nm to approximately 10 microns. Much depends on what you wish to protect and how you need to protect it. Our graffiti protection coatings can offer protection for up to 50 removal cycles.



Our partners have coated the Nomura Bank and The Menin Gate with SiO^2.

auto

SiO^2 coatings are ideal for protecting cars and motorcycles . Alloy wheels become easy to clean and blemish free, as brake dust does not burn into the coating. Exterior body work and fuel tanks become protected by a glossy, easy to clean and abrasion resistant coating. Car seats become stain resistant and odours can be significantly reduced, especially if an anti-pathogen variant is used. Perhaps most significantly all of the windows can be coated with a highly durable and undetectable super-phobic coating which massively increases visibility when driving in heavy rain.

CCM®
Creative Chemical Manufacturers

Our product sectors

aviation

SiO² coating on a Boeing 737

SiO² coatings have already been trialled extensively on private Business Jets. On interior surfaces the coatings have been used to protect carpets and fabrics against staining and wear, on galley surfaces to enhance the appearance and "cleanability". (Coated surfaces maintain an "as good as new" appearance). Our anti-pathogen coatings will of course allow the client to travel in an environment which is as clean as possible. On the exterior of the aircraft, SiO² coatings have been proven to be significantly more durable than the conventional coatings which are currently in use. We are now working through CAA approvals.

marine

SiO² coatings have been tested on a wide range of vessels. The marine environment is of course very tough and our coatings have proven to offer excellent performance, and as ever the range of possible applications have proven to be enormous. On cruise liners expensive state room carpets can be protected as can all surfaces in kitchens restaurants, and bathrooms. Linen, bedding and soft furnishing become stain resistant. Bridge windows remain clearer in stormy conditions as sea salt does not burn into coated glass. Funnels do not become stained by exhaust deposits and so high standards of presentation are maintained. On pleasure craft, hulls can be protected against soiling and abrasion, soft furnishings can be protected against mould, galleys and heads can be coated with anti-pathogen protection. We also provide a complete cleaning, protection and sanitation program which utilises, award winning cleaning technologies.

Liquid Glass – Protecting our world.

think **green**

GREEN APPLE AWARD WINNER
CCM GMBH
GOLD WINNER
EUROPE/UK
LIQUID GLASS

CCM®
Creative Chemical Manufacturers

www.ccm-international.eu

Pre-Cleaner BIOSATIVA® - Steam Cleaner in a Bottle

Steam cleaning in a bottle. The completely natural and biodegradable cleaning concentrate suitable for all surfaces.

PROPERTIES

- High-performance cleaner
- Created from sustainable natural ingredients
- Environmentally compatible
- Completely biodegradable
- Gentle to materials and surfaces
- Dermatologically harmless (skin-friendly, also suitable for allergy sufferers)
- Exceptionally strong cleaning action
- Non-corrosive
- Pollutant-free
- Solvent-free
- Non-toxic for humans, animals & environment
- No "hazardous goods" labelling necessary
- Non-dangerous goods
- Winner of the prestigious Green Apple Award. This International Environmental Award was presented to Biosativa® in recognition of it's status as Europe's most environmentally-friendly product
- Confirmed by DEKRA as „Suitable for use within the food sector"

Testing confirms that Biosativa® reinvigorates contaminated water and soil.

One cleaner for all cleaning needs.
Ecologically beneficial.

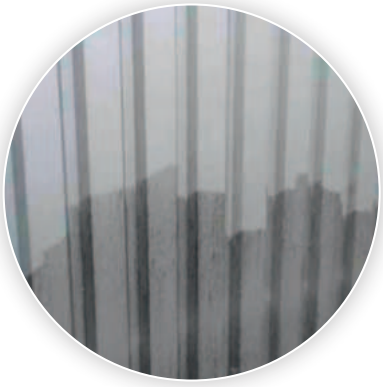
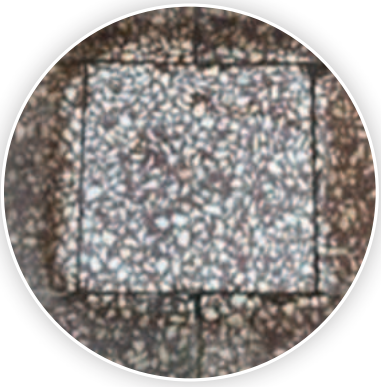
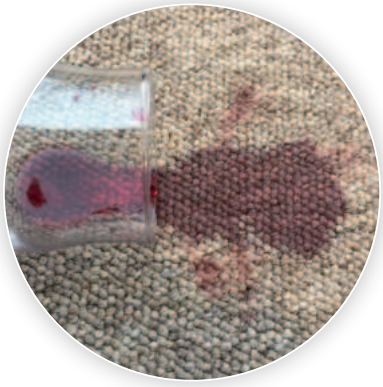
ATTRIBUTES

- Highly active cleaning technology, containing a unique bio-polymer, which is extracted from renewable raw materials
- The raw materials do not include palm oil
- Zero use of petrochemical components
- CO_2 neutral as Biosativa® is based on vegetable essences, proteins and natural oils (not an enzyme cleaner)
- Energy-saving production through condensation and use of concentrates
- Benefits from amphoteric charge (positive and negative charge)
- Due to the special polymer and charge structure a vast range of soiling agents are broken down
- Soiling agents are easily dispersed with water
- Vegan
- Without micro-plastics
- No genetically modified organisms

Art. No.	**Bottle / Canister**
BS2122-1	1 litre bottle (MOQ: 100 litre)
BS2122-10	10 litre canister
BS2122-IBC	1 000 litre IBC

HS Code: 3402 9010 90, no DG

BIOSATIVA®
CLEANING WITH THE POWER OF NATURE!


Pre-Cleaner BIOSATIVA® - Steam Cleaner in a Bottle

APPLICATION

INDUSTRY

Machines – apply with spray bottle, brush & cloth:
1:5 - 1:20

Buildings, facades, surfaces etc.:
1:10 to 1:100 (depending on soiling and surface technology)

Tyre abrasion from fork-lifts and other equipment on hall floors:
1: 5 spray, agitate the surface, allow to take effect and then remove residue.

BASIC CLEANING

Floors of all kinds (concrete, tiles, PVC, linoleum, epoxy, etc.):
1:5 - 1:100

Surfaces of all kinds in maintenance cleaning:
1:20 - 1:100

Soot and carbon materials – suitable for post-fire restoration:
1:5 - 1:30

Odour removal: Due to it's highly effective cleaning properties, Biosativa® aids the removal of bacterial accumulations, and as a result odours are also removed or greatly reduced

AUTOMATIC CLEANING

Floors and surfaces of all kinds:
1:20 - 1:100 (depending on soiling)

MARINE CLEANING

Ideally suited for cleaning all areas of a marine environment

KITCHEN CLEANING

Surfaces, stoves, floors, kitchen appliances:
1:5 - 1:50 (depending on soiling & technology)

HIGH-PRESSURE CLEANING

Up to 95°C using standard cleaning machines:
1:25 - 1:100

Usable on a wide range of heat-tolerant surfaces e.g. facades.

Removal of algae and other similar organic matter:
1:10 to 1:100

Carpets with spray extraction device:
1:20 - 1:80 (with warm water)

AGRICULTURE

Stables, livestock areas, silos, tractors, tools, greenhouses:
1:5 - 1:30

VEHICLE CLEANING

Manual application for inside and outside the vehicle with spray bottle, sponge, brush & microfibres:
1:10 - 1:30

DOMESTIC CLEANING

Thousands of uses around the home

EXAMPLES OF MIXING RATIOS

Boat Cleaning	1:20	Floor cleaning with cleaning machine	1:40	Pan cleaning	1:10
Car steam jet cleaning for engine compartments	1:30	Flooring (non-absorbant)	1:10	Petrol pumps and surrounding equipment	1:10
Concrete, stain removal	1:6	Glass cleaning	1:60	Plastic cleaning	1:10
Dishes and cutlery cleaning	1:20	Machine cleaning	1:10	Pressure water dispensing	1:60
Engine cleaning	1:10	Metal and stainless steel cleaning	1:10	Windows	1:100
Floor cleaning (manual cleaning with sponge or cloths)	1:20	Oven cleaning	1:10	Work Benches	1:10

Pre-Cleaner BLU1000 - High Quality Stainless Steel Cleaner

This product contain highly active cleaning agents and additives to thoroughly clean very contaminated, damaged, corroded or unsightly stainless steel surfaces. Cleaned surfaces often look as good as new, and sometimes better than new.

UTILIZATION

Interior and exterior surfaces of stainless steel, coatings (metallic, organic or inorganic) in industry, craft, food production and preparation, private and public sector (e.g. swimming baths, hospitals) and in the home.

Stainless Steel Special Cleaner BLU1000

It is used as a special cleaner in highly soiled, coated or corroded vessels within breweries. Ideal for stairways, handrails, railings, swimming baths, steel cladding, furniture etc..

BLU1000 can be used on other substrates, but it is optimised for stainless steel. Use on other substrates is at the users discretion.

APPLICATION

The product is applied with a special sponge and worked into the surface. The time required for application depends on the degree of contamination and surface condition. Ensure that stubborn stains are thoroughly treated with the special polishing pad or sponge. This will not affect the surface structure. After application remove any remaining residues by rinsing with water and then wiping dry.

CONSUMPTION

1 litre = 5 - 10 m²

The indication of product suitability and associated notes are based on our experience. Test product first for suitability.

PACKAGING & SHIPPING

Art. No.	**Bottle / Canister**
BLU1000-1	1 litre bottle
BLU1000-200	200 litre barrel
BLU1000-1000	1 000 litre IBC

HS Code: 3402 9010 90, no DG

7675 Duo Glass-Metal / 7678 (Conc.) & 673 Universal NA

Universal Coatings for non-absorbent surfaces (Glass / Ceramics, Plastics, Metal & Stainless Steel)

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
+5 to +50°C	200 - 250 m² (depending on the structure of the substrate)	Up to 2 years, depending on abrasion rates	12 - 18 months	+5 to +25°C	12 hours

Universal coatings are coatings which offer the same "very good" performance characteristics on every substrate. But for the highest level of performance we suggest the use of our „substrate specific" coatings. The universal coatings are perfect for consumers, easy to apply and very effective.

PROPERTIES

- Can be used on almost all non-absorbent surfaces
- Easy to apply
- Easy to clean
- Biostatic
- Treated surfaces remain clean for prolonged periods
- Adhesion of dirt and deposits is massively reduced
- Soiling is easily removed with water
- Water and other liquids pearl off easily
- Ideal for bathrooms, healthcare environments and public buildings
- Food safe, tested after EC legislation regulation 10/2011
- Colourless
- Layer thickness: approx. 100 nm
- Inorganic

PACKAGING & SHIPPING

Type	7675/7678	673
Ready-to-use	*7675-1* 1 000 ml bottle *7675-200* 200 litre barrel *7675-1000* 1 000 litre IBC HS code: 3208 9019, DG (VOC 99%)	*673-1* 1 000 ml bottle *673-200* 200 litre barrel *673-1000* 1 000 litre IBC HS code: 3208 9019, DG
Concentrate	Dilution Rate: 1:120 *7678-1* 1 000 ml bottle (1:120) *7678-200* 200 litre barrel *7678-1000* 1 000 litre IBC Needed alcohol: Isopropanol 100%; water content < 0,1 wt% HS codes: 3208 9091 + 2811 1980, DG (2 components)	Not available

APPLICATIONS

Application	7675 SiO^2 based	673 Silane-based
Glass / Ceramics	✔ ✔ ✔	✔ ✔
Plastics	✔ ✔	✔ ✔ ✔
Metal	✔ ✔	✔ ✔
Stainless Steel	✔ ✔ ✔	✔ ✔
Painted Surfaces / Car Paintings	✔ (cannot be layered)	✔ ✔ ✔ (can be layered)

ATTRIBUTES

Attributes (R2U)	7675	673
Alcohol-based	Yes	Yes
Application	Easy	Very easy
Odour	Nearly odour-free	Slight
Touch Dry	2 - 3 minutes	2 - 3 minutes
Surface Usable after	1 hour	20 minutes
Optimum Performance after...	24 hours	10 hours

QUALITY STANDARDS

Test	Description
TÜV, MSZ ISO 18593:2008	Microbiological Test
TÜV, MSZ 9640/41:1983	Scratch hardness test with spring ball rod
TÜV, MSZ EN ISO 15184:2013	Pencil Hardness Test
TÜV, Sessile Drop Method	Water-Repellent, surface tension, contact angles
TÜV, DIN 51 155	Impact Test
TÜV, ICP-MS MSZ EN ISO 17294-2:2005	Metal content of the wipes
TÜV, ICP-MS + XRF	RoHs screening test
ASTM D 3363	Wolf Wilburn Pencil Hardness Test
DIN EN ISO 15184	
BS 3900-E19	
DIN EX 13523-4	
ISO 10993-1	Biocompatibility Test
ASTM E 2180-07 (Reapproved 2012)	Assessment of Antimicrobial activity (ATCC 6538, 4352 & 15442)
ISO 9001	Anti-Bacterial Test
Martens, Vickers	Hardness Test on Mobile Phone Screens
	Radiation Test on mobile phone

695 Universal STW / 697 (Conc.) & 691 Universal Duo Textile-Stone / 692 (Conc.) & 687 Carpet Protect (Conc.)

Universal Coatings for absorbent surfaces (Stone, Textile & Wood)

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
+5 to +50°C	5 - 40 m² (depending on the structure of the substrate)	Up to 2 years	Up to 24 months, depending on the variant	+5 to +25°C	12 hours

Universal coatings are „easy to apply" coatings which offer the same "very good" performance characteristics on every substrate. But for the highest level of performance we suggest the use of our „substrate specific" coatings. The universal coatings are perfect for consumers, as they are DIY variants and highly effective.

PROPERTIES

- Aqueous, room temperature curing impregnation for textiles (PES, Cotton, PA and mixtures), stone & wood
- Exceptionally versatile, no odour.
- Can be applied to almost all absorbent surfaces
- Excellent performance
- Hydrophobic and oleophobic
- generates a nano scale film on the surface of the fabric fibres and filaments
- Reduces significantly the penetration of water, soot, coffee, cola, ketchup, red wine and other staining agents into the fibres
- The penetration of cooking fat, fuel, waste oil and dry soiling agents into the structure of the fibre is reduced and as a result many soiling agents can be easily removed
- Includes organo functionized silanes
- Water-based
- Optimised for highly absorbent mineral surfaces
- Reduces adhesion of micro-organisms
- Excellent acid and alkaline resistance (approximately 2-12 pH in diluted form)
- Coverage rate per litre: 4 - 40 m² (depending on the structure of the substrate), heavy carpets requires the application of more liquid than fine silk in order to effect a coating
- Durability of the coating: Up to 2 years in normal use e.g. domestic carpet with high footfall
- Offers contact protection for leather and fabrics. Soiling agents should be removed within 2 to 3 minutes to prevent staining
- Breathable (not suitable for protecting marble against acidic vapour!)
- Nano particle free
- No DG / VOC free
- Layer thickness approx. 20 - 200 nm
- Inorganic

further information

Video how to mix the concentrate

APPLICATIONS

Application	691/692/687	695/697
Stone	✔ ✔	✔ ✔ ✔
Wood	✔	✔ ✔ ✔
Textile	✔ ✔ ✔	✔ ✔

ATTRIBUTES

Attributes	691/692	695/697/687
Water-based	Yes	Yes
Application	Very easy	Very easy
Room curing	12 to 24 hours	12 hours
Fluoriated agent content	Fluorine C-6, PFOA free (below the declarable level)	PFOA and PFC free (below the declarable level)
Shelf Life of the Liquid	12 months	24 months
Concentrate	1:20-1:30	1:9 (for stone) - 1:14 (for textile)
Note		Don't use on white, low quality textiles

PACKAGING & SHIPPING

Type	691/692	695/697/687
Ready-to-use	*691-1* 1 000 ml bottle *691-200* 200 litre barrel *691-1000* 1 000 litre IBC HS Code: 3809 9100, no DG	*695-1* 1 000 ml bottle *695-200* 200 litre barrel *695-1000* 1 000 litre IBC HS Code: 3910 0000, no DG
Concentrate	*692-1* 1 000 ml bottle *692-200* 200 litre barrel *692-1000* 1 000 litre IBC HS Code: 3809 9100, no DG	*697-1* 1 000 ml bottle *697-200* 200 litre barrel *697-1000* 1 000 litre IBC HS Code: 3910 0000, no DG
	Not available	*687-1* 1 000 ml bottle *687-200* 200 litre barrel *687-1000* 1 000 litre IBC HS Code: 3910 0000, no DG

689 Rapid Tex, 7689 Dura Tex / 7685 (Conc.), 683 Rapido Leather & Fabric Protection / 688 (Conc.)

KEY FEATURES

Art. No.	Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
689 / 7689	+5 to +50°C	Up to 100 m², depends on the density/structure of the substrate	Up to 25 hand washing cycles (Heat cured industrial coating offers the highest level of washability)	24 months	+5 to +25°C	12 hours
683		3 - 10 m²				2 hours

We offer a wide range of water based textile, leather and paper coatings for slightly different uses. The coatings match the needs of those who seek DIY and industrial applications. The variants offered also range in performance levels, mixing ratios and drying times. Both products are available as concentrates.

PROPERTIES

- Creates water, oil and stain resistant fabrics
- Forms a long-lasting, transparent, ultra-thin layer
- High Hydrophobicity + Oleophobicity
- Strong anti-adhesive properties
- Excellent easy-to-clean effect with regard to dirt and liquids
- Fibres are protected against the ingress of dirt particles
- Environmental compatibility and food-safety
- Permanent and breathable
- UV-stable and temperature-resistant
- Bacteriostatic: creates an environment which inhibits microbial development
- Easy application
- Will not affect the appearance, breathability, colour and texture of the fabric
- Invisible to the human eye (coating thickness: 100-150 nm)
- No change to the hand / texture of the fabric
- Simple application (do-it-yourself)
- Resistant to domestic solvents and domestic acidic and alkaline cleaners
- Highly flexible up to 200% stretch
- Layer thickness: 60 - 170 nm
- 689 / 7689: Water-based
- 683: Alcohol-based, suitable for application to leather and fabrics. It penetrates rapidly in to leather and provides excellent hydrophobicity and olephobicity (superior to water based coatings). As the name suggests, this coating dries and cures rapidly. Coated leather can be cleaned with a damp cloth. Coated fabric can be gently soak washed. Re-application is quick and easy.

PURPOSE

- Clothing
- Home textiles (upholstery, furniture, carpets)
- Paper, cardboard
- Household textiles (pillows, furniture), carpets
- Suede/leather
- Mobile Phone bags

PACKAGING & SHIPPING

Ready-to-use			HS Code
1 000 ml bottle	**200 litre barrel**	**1 000 litre IBC**	
689-1 (1:19 from 685)	*689-200*	*689-1000*	3824 9992, no DG
7689-1 (1:9 from 7685)	*7689-00*	*7689-1000*	3824 9992, no DG
Concentrate			**HS Code**
1 000 ml bottle	**200 litre barrel**	**1 000 litres IBC**	
7685-1 (1:9 - 1:39)	*7685-200*	*7685-1000*	3824 9992, no DG
683-1 (1:25)	*683-200*	*683-1000*	3824 9992, no DG

QUALITY STANDARDS

Test	Description
ISO 11507	Artificial weathering with fluorescent UV lamps + water (method A)
DIN 55620-1+2	Determination the contact angle
DIN EN ISO 11998:2008	Determination of the wet-scrub resistance and cleanability of coatings
ECO PASSPORT	Oeko-Tex® Standard 100, product classes I - IV
DIN EN ISO 14419	Examination of oil resistance with help of hydrocarbons
CCM lab	Contact angle
IMO / ISO	Smoke and Toxicity Test

APPLICATIONS & ATTRIBUTES

Application	7689 DuraTex	683 Rapido Leather & Fabric	689 Rapid Tex
Textile	✔ ✔ ✔	✔ ✔ ✔	✔ ✔ ✔
Leather	✔	✔ ✔ ✔	✔
Suede	✔ ✔	✔ ✔	✔ ✔
	Attributes (for ready-to-use liquid)		
Water-based	Yes	No, alcohol - based	Yes
Application	Spray	Spray	Spray
Room Curing	12 hours	2 hours	1 - 1.5 hours
Fluorine	Yes, fluorine C-6, PFOA free	Yes, fluorocarbon C-6 PFOA and PFOS free (below the declarable level)	Yes, below the declarable amount of fluorine

7601 Super Glass / 7608 (Conc.)

Glass and Ceramic Coatings, recommended for all kinds of glass

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
7601: -25 to +35°C (also in sunlight)	150 - 200 m^2	Outside under German weather conditions 7601: 3-5 years	2 years	-10 to +30°C	12 hours at 20°C (surface usable after one hour)

PROPERTIES

- Clear, colourless liquid, virtually undetectable, surfaces look and feel the same after application but they may look slightly brighter.
- Easy to apply and re apply
- Resistant against frost and extreme heat or UV exposure, to salt, hard water minerals, seawater, salty air, domestic acid and alkali solutions e.g. within the range pH 2-12
- Anti-soiling, water and dirt-repellent
- Helps to prevent water marks, dirt, algae and bird fouling from adhering to glass
- No scraping, scrubbing or harsh chemical cleaners needed as soiling agents do not bond to the coated surface
- Protects windows from irreparable corrosion, abrasion and “salt burn in”
- Easy to clean effect, treated surfaces remain clean for pro-longed periods, this reduces cleaning time and the costs for cleaning and care
- Drastically reduces cleaning frequencies, saving energy, time and cost
- Self-cleaning glass effect on vertical surfaces after heavy rain
- Reduces the growth of micro-organisms and bacteria
- Enhanced hygiene due to biostatic characteristics
- Will considerably reduce surface friction
- Long durability
- Contact angle approx. 104°C
- Heat resistance: 450°C short-term (seconds), 250°C long-term (hours)
- PH-value stable:1-12,5
- Layer thickness 60 - 150 nm
- Inorganic
- 7601 TÜV tested on windscreens

Purchased from local supplier:

- Ethanol (EtOH): 99% or higher 19.3 litres
- Hydrochloric acid 37% (HCl): CAS No.: 7647-01-0: 40 g

7608 CONCENTRATE

For 20 litres:

- Component A: 400 g
- Component B: 400 g

ALGT© glass & ceramic is ideal for use on glass and ceramic surfaces in environments such as

- Buildings e.g. glass facades/entrance doors
- Float glass
- Treatment of automotive glass (massively improves visibility in rainy conditions), durability: 6601: up to 6 months, 7601: up to 12 months.
- Treatment of solar/photo-voltaic plants (higher efficiency)
- Anti-soling coatings of ceramic and enamel conservatories
- Sanitary ware (shower screens, splash-backs, mirrors, basins, toilet)
- Glazed ceramic tiles
- Ceramic bathtubs, showers, sinks, swimming pools
- Windows, sliding doors, skylights, louvre windows balustrades kitchens

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
7601-1 / 7608-1	1 000 ml bottle
7601-200 / 7608-200	200 litre barrel
7601-1000 / 7608-1000	1 000 litre IBC

HS Code 7601: 3824 9992, DG

HS Code 7608: 3824 9992, no DG

QUALITY STANDARDS

Test	Description
ISO 11507	Artificial weathering with fluorescent UV lamps + water (method A)
DIN 55620-1+2	Determination the contact angle
DIN EN ISO 11998:2008	Determination of the wet-scrub resistance and cleanability of coatings
TÜV	Test on windscreens: 1) Perl effect from 40 km/h 2) Easy--to-apply 3) streak-free
DIN 1249 part 12, DIN 18516, part 4, DIN EN 12150	Test Flexural Strength on Safety Glass
CCM lab	Contact angle
TÜV	Pencil + scratch hardness, hydrophobic ef-fect, contact angle

640 Permanent Protect / 7640 Profi Protect

High Performance Coating - Aerospace Grade

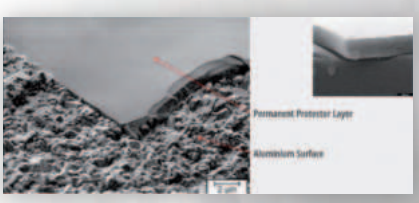
KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
+5 to +35°C	Up to 150 m²	Up to 25 years	24 months when stored in original containers, 6-12 months after opening	+5 to +25°C	7 days at room temperature

This is a highly advanced SiO^2 coating which was created to address the needs of the marine, military and aerospace sectors. It is massively resistant to corrosion, abrasion and temperature. It can be applied to metal, plastic, powder coated and painted substrates. The coating can be heat cured, or cured at ambient temperature. ALGT© Permanent Protector reacts with the substrates surface and forms an abrasion resistant coating with very high bonding properties on metal. It generates thin, transparent coatings with high impact strength and is resistant to alkali, abrasion and corrosion.

PROPERTIES

- Organic polymeric compound
- Contains solvent (not water)
- Clear, colourless liquid based on silanes
- Ultra high performance, hardness of 7-9H
- High impact strength
- Ideally suited for the water/dirt-repellent coating of non-absorbent materials in outdoor and indoor areas
- Can be sprayed or wiped on to surfaces
- Generates a generally invisible surface. The coating does provide a glossy appearance
- Extremely resistant to corrosion, abrasion, acids and alkali eg within the range pH 2-12 in diluted form, sea water and salty air (extensive Salt spray testing has been conducted. In addition testing shows that this coating is also resistance to rocket fuel!)
- Highly resistant to a large number of organic solvents
- Treated surfaces remain clean for prolonged periods and are “easy to clean”
- Protected surfaces provide reduced costs for cleaning and care
- Food safe
- Heat resistant up to 700°C working temperature, 800°C peak
- Cold resistant up to -90°C
- Highly effective for up to 25 years
- Heat drying increases the hardness of the coating, which ranges from 7H (for room temperature curing) to 9H (for heat curing)
- Contact angle: 105°
- VOC content solvent: 59,9 %
- Layer thickness: 5-20 µm



More information

DIFFERENCE BETWEEN 7640 AND 640

The 7640 offers almost identical performance characteristics to the 640 coating but the solvent balance has been altered in order to allow for a longer working time. The coating can be applied in exactly the same way as the 640 coating but buffing (if required) can be conducted up to 20 minutes after application. This makes the application on to autos, aircraft and boats, significantly easier.

All of the other key points are the same as 640.

QUALITY STANDARDS

Test	Description
DIN 10531	Migration test (metals)
EN 1186-4 + 5	Overall migration test
EN 13130	Specific migration test
Martens, Vickers	Hardness Test on Mobile Phone Screens

640 / 7640 can be used on materials such as:

Ferrous metals, non-ferrous metals, galvanised metals, varnished surfaces, powder coated surfaces, plastic, e.g. window frames, anodized aluminium, painted surfaces and many more

640 / 7640 can be used in a vast variety of commercial applications:

- Military industry (battle ships, airplanes, tanks, weapons etc.)
- Steel industry (bridges, constructions, equipment, components, machines etc.)
- Oil industry (pipe lines, platforms, coupling units etc.)
- Merchant and Leisure marine. On a vast number of
- Surfaces above and below the waterline
- Car industry (engines, paint top coat etc.), protection for at least 5 years
- Rain industry (engines, train frames, paint top coat, against graffiti etc.)
- Aerospace (engines, paint top coat, leading edges etc.)

640 / 7640 is also our recommendation for use on stainless steel

For extreme abrasion resistance

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
640-50 / 7640-50	50 ml bottle
640-100 / 7640-100	100 ml bottle
640-1 / 7640-1	1 000 ml bottle
640-5 / 7640-5	5 000 ml bottle

640 / 7640 Application of the Ceramics Coating for Automotive Surfaces

The **640 / 7640** can be applied to almost any (car) paints. To attain optimum performance it is essential that the target surface is to perfectly clean; it must be completely free from waxes, silicone coatings etc., otherwise the coating will not be able to bond to the surface.

Before full application, please always carry out a test on an inconspicuous location (e.g. in the engine compartment or the car). Do not apply the coating to freshly painted surfaces as the paint must completely cured before application.

CLEANING AND SURFACE PREPARATION

This product is a product for professionals, therefore it is recommended to practice the application to “get a feel” for the application process. In addition the polishing process should be practiced so that the desired level of gloss finish is attained.

First, meticulously pre-clean the car paint; for this you may use common cleaner, or our pre-cleaner BIOSATIVA®. After completion of the general cleaning process, deep clean

he surface with alcohol (e.g. at least 70% isopropyl or ethanol alcohol, we supply these liquids if required) so that all contaminants are removed. The use of a clay bar cleaning process is also suitable. The simple message is that the coating should only be applied to surfaces which are free of contamination.

The better you perform the pre-cleaning, the better the adhesion and subsequent longevity of the coating.

APPLICATION PROCESS

Please ensure that the application is performed in a well ventilated and dust-free area. We recommend that you use a protective mask during application as the liquid has a strong odour. Wearing protective gloves is also recommended. Please read the MSDS information.

The surface to be coated should be not too hot; so do not coat the car paint if the car was located directly under the sun before, otherwise the liquid will “flash off” and initial curing will be too rapid, and the polishing will be considerably more difficult. Ideally the process should be conducted at an ambient temperature of 25°C. (+/-5°C)

Plan your work. Apply the coating in small sections e.g. one body panel at a time. We recommend that you work in a team, e.g. one person applies the finishing and the other person polishes it promptly.

STEP BY STEP INSTRUCTIONS

❶ Prepare the surface as already described.

❷ Use a thin and smooth microfibre cloth to apply the finish (a cloth of approximately 25 x 25 cm is recommended). Completely moisten the cloth with **640 / 7640.** Apply the finish swiftly and evenly by wiping (always in one direction).

❸ Next, (after 1-2 minutes for 640 and up to 20 minutes for 7640) polish the coated surface without excessive pressure, using a smooth cotton or microfibre cloth (ensure that a lint free fabric is used).

Do not wait longer than 2 minutes before this first buffing action. You must ensure not to aggressively remove too much of the finish. Ensure that all blemishes are removed. If for some reason you delayed the polishing process, and „high spots“ occur, immediately apply another layer of the finish; this will soften the layer below and you may polish anew.

Finish the buffing with a fine soft peach skin texture microfibre.

❹ In warm conditions the coating becomes dust dry after 2 hours and touch dry after 5 hours. After this, the finishing will be dry enough that you may use the vehicle again but the coating is still far from being fully cured and so avoid brushing against the surface with bags or keys.

The coating will cure faster if the surface is hot and so it will be advantageous to place the car in direct sunlight after the first 2 hours of curing.

Within the following 10 days the vehicle should not be cleaned as complete curing takes at least 8 days (depends on the temperature and the humidity), otherwise the finish may be damaged, especially if a drive through car wash is used.

7622 Eco-StoneTopographical Hydrophobic Protection
7637 High performance protection for Monuments

Water based protection for stone and concrete

KEY FEATURES

Art. No.	Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
7622	+5 to +30°C	10 - 20 m², depending on the absorbency of the stone	1 - 2 years	1 year	Max. 20°C	48 hours (fully cured)
7637	+5 to +30°C	10 - 20 m², depending on the absorbency of the stone	Up to 10 years	1 year	Max. 20°C	48 hours (fully cured)

High-performance topographical coatings for stone and high-quality concrete products, such as wet room walls, monuments, concrete seating in public areas, stone foyer areas etc.. Reduces the effects of general surface contamination from water, food stuffs and oils.

PROPERTIES

Both coatings are created from the same core technology. the 7637 provides enhanced oleophobicity, stain protection and durability. The 7622 coating is recommended for areas which are not subjected to heavy contamination from oil, food product residues or graffiti.

- Water based high-performance agent
- Long term protection due to chemical surface bonding
- Anti-adhesion properties
- Highly oil-, water- and dirt-repellent
- Alkali-resistant up to approximately pH value 10-11*
- Reduces lime efflorescence
- Protection against re-soiling, algae and moss
- Allows vapour diffusion
- Fast curing resulting in a tack-free surface
- Highly UV-resistant
- Slightly acidic adjusted (pH-value approx. 4, the max. acidic pH-value for contact substances is about *3-4)
- Applicable by brush, foam roller, micro-fibre cloth or spray application
- Spraying with the CCM Low Energy Spray System or an airless spray (at< 4 bar) is possible
- Density: Approx. 1,0 g/cm³
- Odour: Low odour
- pH-value: approx. 5
- Ready to use liquid which creates an undetectable layer (The coating is normally undetectable but on certain stones e.g. black slate “colour enrichment” can occur. Colour enrichment is often a desirable outcome but not all end users seek colour enrichment. The 7637 variant provides greater colour enrichment.)

* Please note that the max. pH-values of contact substances may vary depending to the stability, cleanliness and the inherent pH values of the substrate.

CHARACTERISTICS

Besides these product features both coatings differentiate as follow:

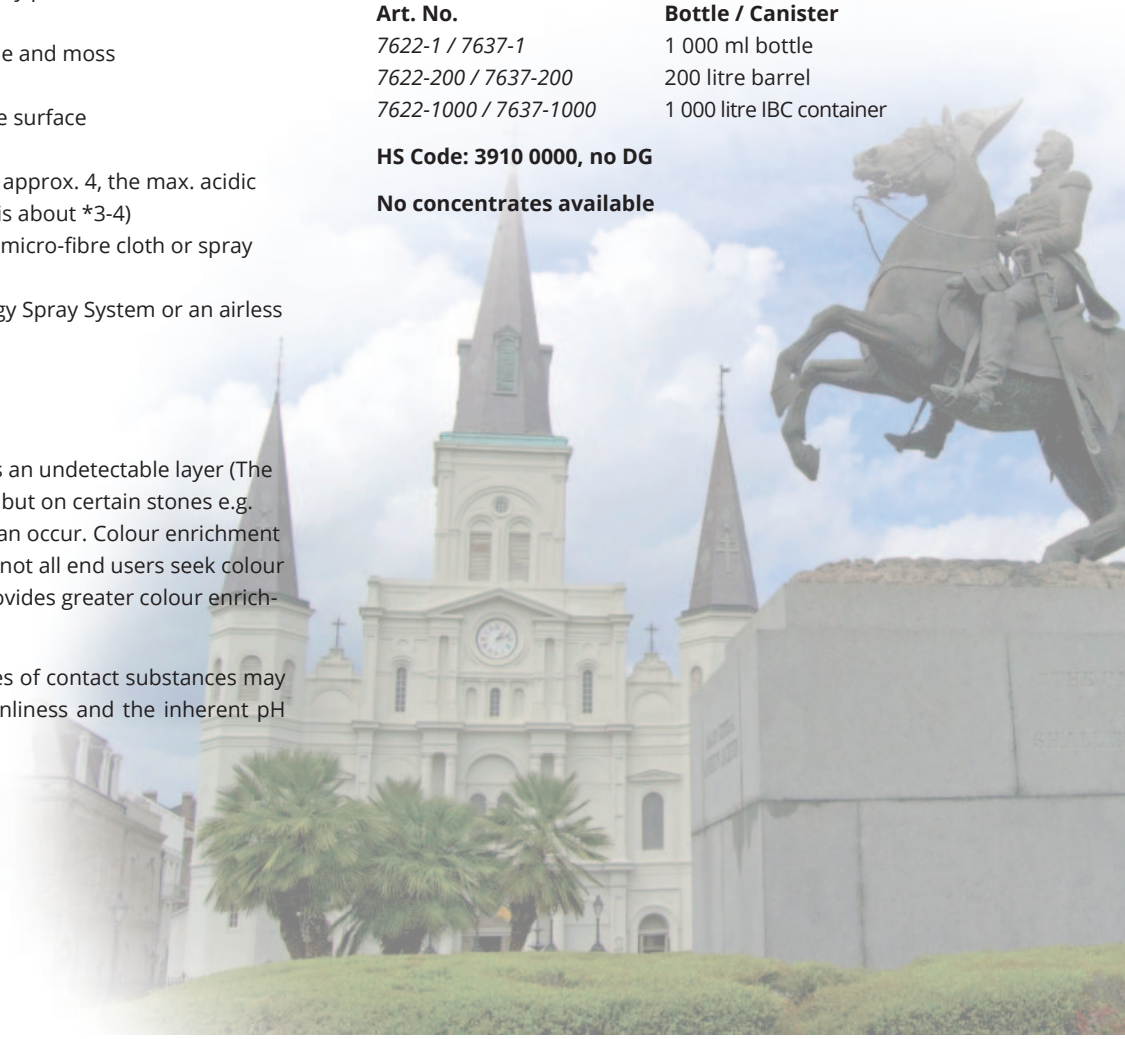
Quality	7622	7637
Easier Removal of Graffiti	✔	✔ ✔ ✔
High Density Protective Layer	✔	✔ ✔ ✔
Durability of the Coating	1 - 2 years	Up to 10 years
Coating Walls of Buildings + Statues	✔	✔ ✔ ✔

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
7622-1 / 7637-1	1 000 ml bottle
7622-200 / 7637-200	200 litre barrel
7622-1000 / 7637-1000	1 000 litre IBC container

HS Code: 3910 0000, no DG

No concentrates available



704 Multi Stone - Stone / Concrete / Mineral Surfaces Coating

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature
+5 to +40°C	20 - 100 m²	5 years +	12 months	+5 to +25°C

704 Multi Stone is a SiO^2 based micron scale coating which offers massive durability linked with strong graffiti and stain resistance. It can be applied to all stone surfaces either in full strength or in diluted format, in 1, 2 or 3 coats by roller, brush or spray, depending on the level of protection required. To create a matt finish, wipe the surface with a microfibre or dry brush after application. 704 Multi Stone protects the substrate completely against moisture ingress.

PROPERTIES

- Topographical coating
- Super durable
- Solvent based
- Easy-to-clean effect
- industrial coating against Lemon Juice, Red Wine and Hot Engine Oil
- 100% solid clear coat foumulation
- Highly resistant to staining from oil, wine, lemon juice
- Micron scale coating
- Can be supplied as a coloured variant (every colour) from MOQ 1 000 litres
- Ready-to-use liquid, no concentrate available
- Can be layered
- The penetration of water, soot, coffee, cola, ketchup, red wine etc. is reduced
- The penetration of grill fat, fuel and waste oil and dry soil into The surface and can be very easily removed
- The curing process is at room temperature and it leads to a dust dry surface just in some few minutes
- Not soluble in water
- Can be applied by spray, brush, roller and dip or flow (not a „wipe on buff off"-coating)
- Resistant to heat and is non-flammable when cured. On stone is still active after 1000°C.
- Pre-warming the surface prior to coating enhances bonding
- Curing time: Dust dry after a few minutes and stackable, fully bonded after 24 hours
- Withstands 1 million wiping actions with a micro-fibre tissue
- Non-diluted coating offers maximum performance
- On some highly absorbent surfaces and on wood flooring (diluted layer may be applied followed promptly by a non-diluted layer. Apply the second layer within minutes of the initial layer, 2 parts 704 and 1 part thinner)
- Layer thickness: Approx. 100 µm
- Inorganic
- Dilutable with a) Ethanol, b) 1-Methoxy-2-Propanol

USE ON

- Natural stones with rough/absorbent surfaces (granite, slate, basalt, sandstone, limestone)
- Concrete (e.g. walls and facades)
- Roof tiles (unglazed)
- Flag stones
- Clinker
- Plaster
- Hop fittings (not suitable for polished surfaces, lightly abrade such surfaces prior to coating)
- Suitable for DIY application, no special equipment required

STONES / CONCRETE

- Bonds exceptional well on rough stones and concrete (needs a relatively rough surface to bond to. Not suitable for polished surfaces)
- Slightly breathable. Great performance against oil, water and domestic cleaning agents. Protects against red wine and lemon juice on marble when coated with a full layer. If a diluted layer is applied a slight blemish can occur from red wine after some hours
- Polished marble: It will adhere but if scratched hard it can be scratched off; however if the surfaces is abraded with a 60-80 Grit abrasive before hand excellent bonding will be achieved.
- Provides a glossy appearance, but wiping with a microfibre just after application creates a matt appearance.
- Excellent resistance staining on all surfaces. Anti-graffiti.

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
704-1	1 000 ml
704-5	5 000 ml
704-200	200 litre barrel
704-1000	1 000 litre IBC

HS Code 3208 9019, DG

706 Q² Marble PRO Marble Protection System

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing time
+15 to +25°C	50 - 80 m²	Up to 10 years	24 months, 6-12 months after opening	+5 to +25°C	7 days at room temperature

706 Q² Marble PRO is ideal for use on any marble surface. The coated surface becomes glossy and very easy to clean. Coated marble with 706 Q² Marble PRO will resist staining from wine and lemon juice for over 12 hours.

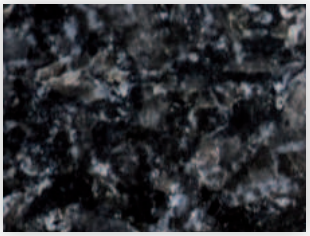
PROPERTIES

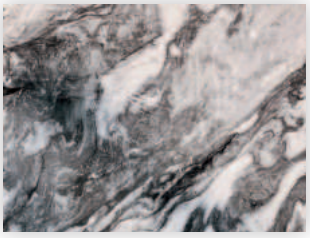
- Excellent shine and durability
- Long-lasting “easy-to-clean” characteristics
- Enriches the colours of the target marble/ stone surface
- Anti-stain characteristics
- Suitable for interior and exterior application
- Good UV stability and protection.
- Extremely resistant to mechanical and environmental degradation.
- Resistant against domestic grade acid and alkaline degradation, as well as organic solvents.
- Heat tolerant, ambient temperature 350°C, point temperature 220°C
- Layer thickness: Approx. 20-25 microns
- Two component coating

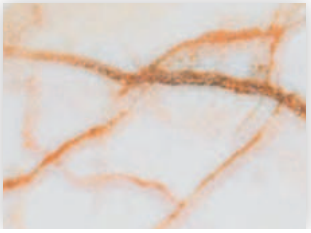
PACKAGING & SHIPPING

Art. No.	Bottle / Canister
706-50	50 g
706-100	100 g
706-1000	1 000 g
706-5000	5 000 g

HS Code: 3208 9091, DG





APPLICATION

CONDITIONS

- Working temperature (surrounding and surface) must be above 5°C
- Best results are obtained in a range between 15°C and 25°C
- No application in direct sunlight
- The surface must be clean, dry, grease-free and free from silicones, wax- or polish residues
- In most instances application will be conducted after the abrasion of the target surface. Ensure that all dust particles have been removed from the surface and local areas prior to spray application.

COMPATIBILITY

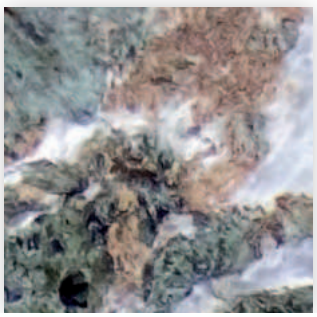
- Corroded areas e.g. tap bases or metal lighting or inlays within the marble, must be thoroughly cleaned and all corrosion removed before coating.

REPARATION

- Use undiluted
- Follow the mixing ratio instruction very precisely
- Add the hardener to the base liquid, shake or stir the solution and wait approximately 10 minutes
- Before working. Allow any “stirring bubbles” to dissipate before application
- Close the container of the hardener immediately. The hardener is very sensitive to humidity
- Maximum pot life after initial mixing is 4 hours.

APPLICATION

- Use the CCM Low Pressure Spray System for spray application. Spray application provides the highest quality finish.
- Roller application is possible but not recommended for surfaces which have to attain the high-quality appearance of kitchen and bathroom surfaces.
- If rollers are used it is recommended that a high-quality small pore roller for gloss paint and varnishes is used. Ovoid over application as this may create “roller- lines”. The target layer should be 25 microns.
- It is important to note that there is a degree of self-levelling after application.




7656 Plastic-Metal Premium / 7658 (Conc.) Coating for Plastics, Metal, Painted Surfaces, Stainless Steel & Metal

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
-25 to +50°C, also in sunlight	150 - 200 m^2	Outside: 1-3 years, under German weather conditions, inside: 5-10 years	2 years	-10 to +40°C	12 hours at 20°C (surface usable after one hour)

PROPERTIES

- Clear, colourless liquid, virtually undetectable, surfaces look and feel the same after application but they may look slightly brighter
- Invisible to the human eye (coating thickness: 100-150 nm)
- Easy to apply and re apply („do-it-yourself")
- Strong hydrophobicity and oleophobicity
- Strong non-stick properties
- Permanent, the permanent chemical bond with the substrate enables excellent abrasion resistance
- Resistant to almost all standard household and industrial cleaners (with the exception of concentrated lye)
- Breathable
- Resistant against temperature (frost and extreme heat or UV exposure), to salt, hard water minerals, seawater, salty air and alkali
- The UV-stability enable functionality for a number of years, approximately the lifetime of the coated surface (not damaged by sunlight)
- Anti-soiling, water and dirt-repellent
- Helps to prevent water marks, dirt, algae and bird fouling from adhering to plastics
- No scraping, scrubbing or harsh chemical cleaners needed as soiling agents do not bond to the coated surface
- Easy to clean effect, treated surfaces remain clean for prolonged periods, this reduces cleaning time and the costs for cleaning and care
- Drastically reduces cleaning frequencies, saving energy, time and cost
- No need to be re-applied after cleaning the surface.
- Reduces the growth of micro-organisms and bacteria
- Enhanced hygiene due to biostatic characteristics
- Food-safe (inert)
- Will considerably reduce surface friction
- Exceptionally long durability (up 3-10 years in most conditions)
- Exceptionally long shelf life (over 5 years)
- Layer thickness: 60 - 150 nm

7656 Plastic-Metal Premium is ideal in environments such as

- Plastic surfaces in sanitary areas (e.g. plexi®-glass shower cabinet)
- Automotive paint (protection for up to 2 years)
- Painted aluminium rims
- Stainless steel surfaces

Purchased from local supplier:

- Ethanol (EtOH): 99% or higher 19.3 litres
- Hydrochloric acid 37% (HCl): CAS No.: 7647-01-0: 40 g

7658 CONCENTRATE

For 20 litres:

- Component A: 400 g
- Component B: 400 g

QUALITY STANDARDS

Test	Details
ISO 11507	Artificial weathering with fluorescent UV lamps + water (method A)
DIN 55620-1+2	Determination the contact angle
DIN EN ISO 11998:2008	Determination of the wet-scrub resistance and cleanability of coatings
BS-EN 1186:2002	Migration Test on coated plastic surface
CCM lab	Contact angle

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
7656-1 / 7658-1	1 000 ml bottle
7656-200 / 7658-200	200 litre barrel
7656-1000 / 7658-1000	1 000 litre IBC

HS Code 7656: 3824 9992, DG

HS Code 7658: 3824 9992, no DG

7654 WB Rapid On & 8654 Quick Gloss / Metal and Plastic Coating & 6601 Easy Care Glass & Paintings Coating

KEY FEATURES

Art. No.	Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
7654	0 to +45°C	100 m^2	+/-6 months	1 year, diluted with medical grade De Ionised water: 2 years.	+10 to +30°C (protect from sunshine)	5 minutes, immediately usable
8654	0 to +45°C	100 m^2	12 months	1 year, diluted with medical grade De Ionised water: 2 years.	+10 to +30°C (protect from sunshine)	5 minutes, immediately usable
6601	+5 to +25°C	150 m^2 - 200 m^2	12 - 36 months	2 years	-10 to +30°C	12 hours at +20°C (surface usable after one hour)

PROPERTIES 7654 & 8654

- Water-based
- Solvent-free
- No odour
- Excellent water-repellency
- High-gloss effect
- Silky smooth surface haptic
- Resistant to nearly all acids, solvents and domestic grade alkaline cleaners
- Easy-to-clean effect (e.g. from impurities produced by insects, bird droppings, exhaust pollutants, and other aggressive stains)
- Very easy to apply
- Much more stable than waxes or silicon-oil-based products
- UV-resistant
- Non-toxic
- Non-flammable
- Readily biodegradable (according to OECD criteria)
- High abrasion resistance against wind-borne particles
- Significant overall reduction of re-soiling
- Temperature resistant from -40 - +200°C
- pH resistant from 1-10
- Not cytotoxic due to ISO 10993-5 + 12
- Inhibit bacteria growth
- Density about 1,00 g/cm^3
- Layer thickness: Approx. 100-140 nm
- VOC free

IDEAL FOR USE ON

7654	8654 /6601
Household e.g. for shower screens, window and door frames etc.	Cars (as stand-alone coating or as "finish" on top of our 640 coating, one litre covers 8-10 cars)
Stainless steel surfaces	boats
Varnished and metallic surfaces	Paint Softening Test
Glass	Glass
Synthetic materials	Visors (ski goggles and motor cycle helmets, especially where there is concern about the use of solvent based coatings)
Rubber	
Chrome	

PROPERTIES 6601

- Alcohol-based
- Clear, colourless liquid, virtually undetectable, surfaces look and feel the same after application but they may look slightly brighter.
- Easy to apply and re apply
- Resistant against frost and extreme heat or UV exposure, to salt, hard water minerals, seawater, salty air, domestic acid and alkali solutions e.g. within the range pH 2-12
- Anti-soiling, water and dirt-repellent
- Helps to prevent water marks, dirt, algae and bird fouling from adhering to glass
- No scraping, scrubbing or harsh chemical cleaners needed as soiling agents do not bond to the coated surface
- Protects windows from irreparable corrosion, abrasion and "salt burn in"
- Easy to clean effect, treated surfaces remain clean for prolonged periods, this reduces cleaning time and the costs for cleaning and care
- Drastically reduces cleaning frequencies, saving energy, time and cost
- Self-cleaning glass effect on vertical surfaces after heavy rain
- Reduces the growth of micro-organisms and bacteria
- Enhanced hygiene due to biostatic characteristics
- Will considerably reduce surface friction
- Long durability
- Contact angle Approx. 104°
- Heat resistance: 450°C short-term (seconds), 250°C long-term (hours)
- pH-value stable:1-12,5
- Layer thickness 60 - 150 nm
- Inorganic

PACKAGING & SHIPPING

Art. No.	**Bottle / Canister**
7654-1 / 8654-1 / 6601-1	1 000 ml bottle
7654-200 / 8654-200 / 6601-200	200 litre barrel
7654-1000 / 8654-1000 / 6601-1000	1 000 litre IBC

HS Code 7654 & 8654: 3402 9090, no DG
HS Code 6601: 3824 9992, DG

CONCENTRATE OF 7654

7659-1	Coating:	3% = for 33,33 litres or 5% = for 25 litres
	Maintenance:	1.5% = 66,66 litres
8654 & 6601	No concentrate available	

7660 „Polish“ for Plastics and Metal 2 in 1

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
-25 to +80°C, suitable for application in direct sunlight	25 - 100 m^2	+/- 1 year	Plastic bottles: 2 years	-10 to +30°C	12 hours at 20°C (surface usable after one hour)

Unlike our standard coating this SiO^2 based polish is an emulsion. The coating is very easy to apply and it withstands high levels of soiling and abrasion. Simply wipe on and buff off. This polish contains particles that are much smaller than a regular polish, thus enabling it penetrate deeper into the structure of the surface.

PROPERTIES

- Ideally suited as a water-/dirt-repellent surface modifier for non-absorbent substrates in outdoor and indoor areas
- Polishes and protects in one easy single application
- Generates an invisible (transparent) surface modification
- Surface will maintain the original appearance
- Will not remove top layer of paint
- Contains aromatics-free solvent, waxes and silicones (no SiO^2)
- Non-stick, glossy finish
- Resistant to frost, friction, UV (to prevent fading), alkali, sea water, salty air, bird fouling and heavy staining
- Water and dirt repellent (hydrophobic)
- Prevents tar, sap and insect residues from sticking to the surface
- Reduces the growth of micro-organisms and bacteria by creating a biostatic surface
- Considerably reduces drag and so offers greater efficiency for vehicles and boats
- Self-cleaning effect on vertical surfaces with heavy rain
- Coated surfaces can be cleaned with water or our award winning Bio Cleaner BIOSATIVA®
- The amount to be applied (10-40 ml/m^2) varies depending on the topography of the surface to be coated and application cloth used; a large thick micro fibre will absorb more liquid than a small smooth micro fibre. Match the application cloth to the surface which is being coated. Use a deeper pile cloth for rougher surfaces
- For up to 2 years on internal surfaces not subjected to abrasion
- Treated surfaces remain clean for prolonged periods and are “easy to clean”
- Protected surfaces reduce the costs of cleaning and care
- VOC content: 16 %
- Layer thickness approx. 30 µm

Highly suited to a wide range of uses within the “facilities” sector, for highly polished and easy to clean surfaces, e.g.:

- Lifts (easy removal of fingerprints)
- Foyer areas (high gloss levels, easy clean surfaces)
- Window frames (polymers, aluminium)

Ideal for an up to six months protection on:

- Automotive lacquer (very easy to apply and re apply)
- Alloy wheels
- Motorbikes
- Boats / jet skis / surfboards / kayaks
- Caravans / camper vans
- Buses
- Rains
- Trailer
- Painted metal, metal chrome, polished or stainless steel, GPR
- Smooth plastic surfaces

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
7660-1	1 000 ml bottle
7660-200	200 litre barrel
7660-1000	1 000 litres IBC

HS Code: 3405 3000, no DG

Liquid Glass Home and Garden Coatings

Solar Panels:
Glass and Ceramics Coating 7601/ 7608

Bath Ceramics:
Glass and Ceramics Coating 7601/ 7608 + 6601 + 7675/7678

Mattress:
- 695/697
- 689
- 7689/7685

Aluminium:
Universal Coating 7675/7678

Plastics:
Plastic Coating 7656/7658

Windows:
Glass and Ceramics Coating 7601/7608, 6601 + 7675/7678

Wall:
Stone Coating 7620

Fabrics:
695/697 + 689 + 7689/7685

Concrete/Stone:
- 695/697 (topografical coating)
- 7620 (penetrative coating)
- 704 (very strong hydrophobicity)

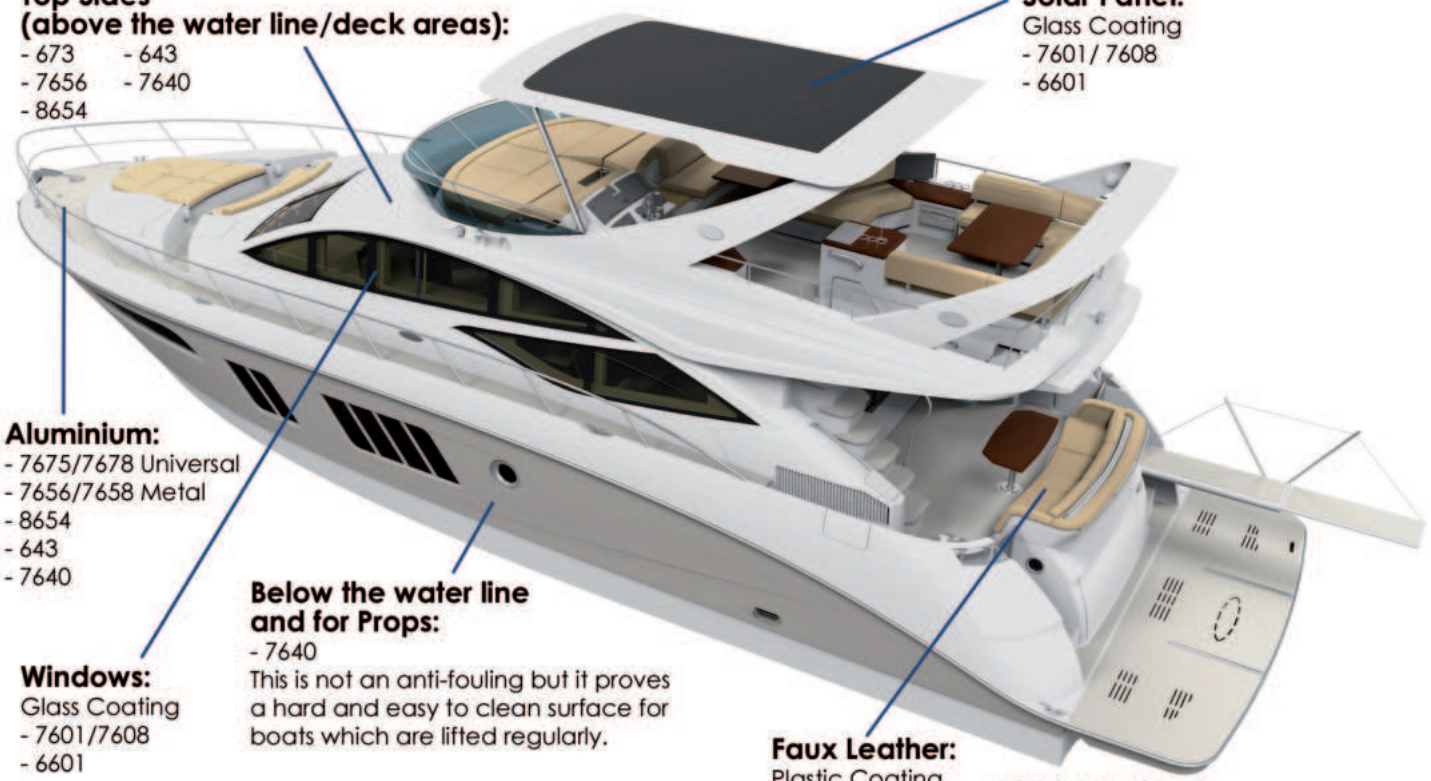
Textile:
- 695/697
- 689
- 7689/7685

Wood:
- 695/697 (topografical coating)
- 7620 (penetrative coating)
- 704 (very strong hydrophobicity)

Liquid Glass Coatings for Power Boats & Sailing Yachts

Top Sides (above the water line/deck areas):
- 673
- 643
- 7656
- 7640
- 8654

Solar Panel:
Glass Coating
- 7601/ 7608
- 6601



Aluminium:
- 7675/7678 Universal
- 7656/7658 Metal
- 8654
- 643
- 7640

Below the water line and for Props:
- 7640

This is not an anti-fouling but it proves a hard and easy to clean surface for boats which are lifted regularly.

Windows:
Glass Coating
- 7601/7608
- 6601

Faux Leather:
Plastic Coating
- 673
- 7656/7658
- 683/688

Stainless Steel:
- 673
- 7675
- 643
- 7640
- 8654

Screen:
Multimedia Coating 901

Wood:
- 7620: For teak decks & natural teak
- 673: For lacquered wood

Textile:
- 695/697
- 689/685
- 7689/7685

Biosativa, Multi award winning Bio Cleaner:
For cleaning the top sides, and bilge areas. Also for stain removal on all fabrics. No negative impact on marine life.

Blu 1000:
Biodegradable cleaner for heavily contaminated Stainless Steel and plastic surfaces. Rejuvenates heavily tarnished stainless steel. Non-abrasive.

GREEN APPLE AWARD WINNER

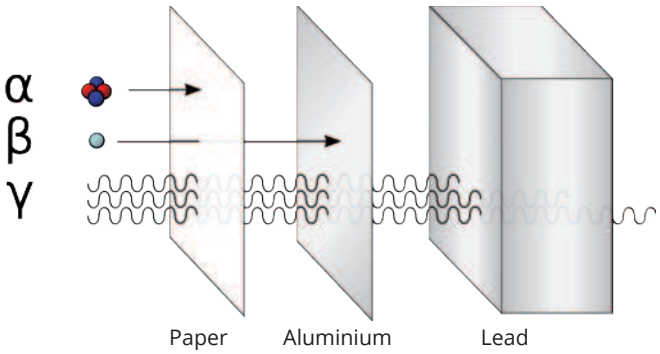
643 and 7640:
These are professional coatings and offer prolonged durability.

7654:
This is a Boeing certified "spray and wipe" hydrophobic coating for all non-absorbent surfaces. Medium durability approximately 3 months depending on abrasion. Quick, easy and very effective.

901 Mobile Phone Coating

PROPERTIES

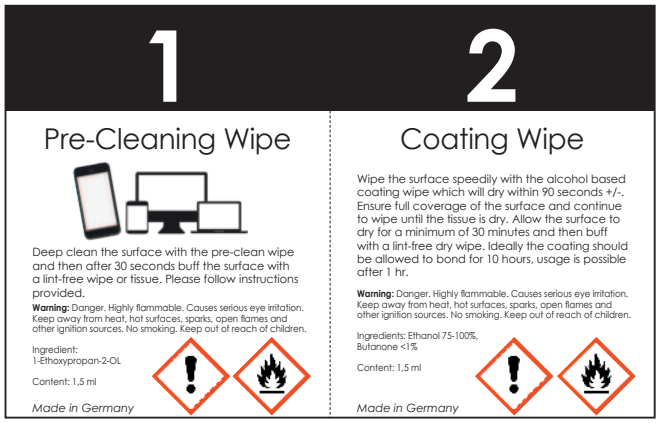
- Splash resistant
- Scratch protection
- Creates a 9H Glass layer
- Completely undetectable
- Inhibits bacterial growth
- Easy-to-clean
- Easy-to-apply
- Bubble-free
- Significantly reduces micro-scratches
- With normal use lasts 1 year
- Withstands over 40.000 wiping actions
- For all devices, include “Edge” phones
- Blocks 80% of γ wave radiation Radiation comes in many frequencies. You can’t stop all frequencies, otherwise the phone would not work. The data tells us that the coating is effective at reducing γ wave radiation. We are not claiming the coating inhibits all frequencies, but this facility to interfere with γ wave radiation is significant.



AVAILABLE SACHETS

MOQ: 5.000 pcs. for private label

Art. No.	Sachet Size	Wipe Size
67100	60 x 80 mm	100 x 140 mm
67102	60 x 80 mm	60 x 70 mm
67103	50 x 70 mm	60 x 70 mm



QUALITY STANDARDS

Test	Description
TÜV, MSZ ISO 18593:2008	Microbiological test
TÜV, MSZ 9640/41:1983	Scratch hardness test with spring ball rod
TÜV, MSZ EN ISO 15184:2013	Pencil hardness test
TÜV, Sessile drop method	Water-Repellent, surface tension, contact angles
TÜV, DIN 51 155	Impact test
TÜV, ICP-MS MSZ EN ISO 17294-2:2005	Metal content of the wipes
TÜV, ICP-MS + XRF	RoHs screening test
ASTM D 3363	Wolf Wilburn pencil hardness test
DIN EN ISO 15184	
BS 3900-E19	
DIN EX 13523-4	
ISO 10993-1	Biocompatibility test
ASTM E 2180-07 (Reapproved 2012)	Assessment of Antimicrobial activity (ATCC 6538, 4352 & 15442)
ISO 9001	Anti-Bacterial Test
Martens, Vickers	Hardness test on mobile phone screens
	Radiation Test on mobile phone

PACKAGING & SHIPPING

HS Code: 3208 9019, no DG

LiquiGlas®, Art. Nr. 901

Private Label

Wet wipes (dispensing tubs round, oval & with hinged lid, dispensing buckets and flowpacks)

Pump spray bottles made of plastic and aluminium, from 7-500 ml, several bottle shapes available

Aerosols

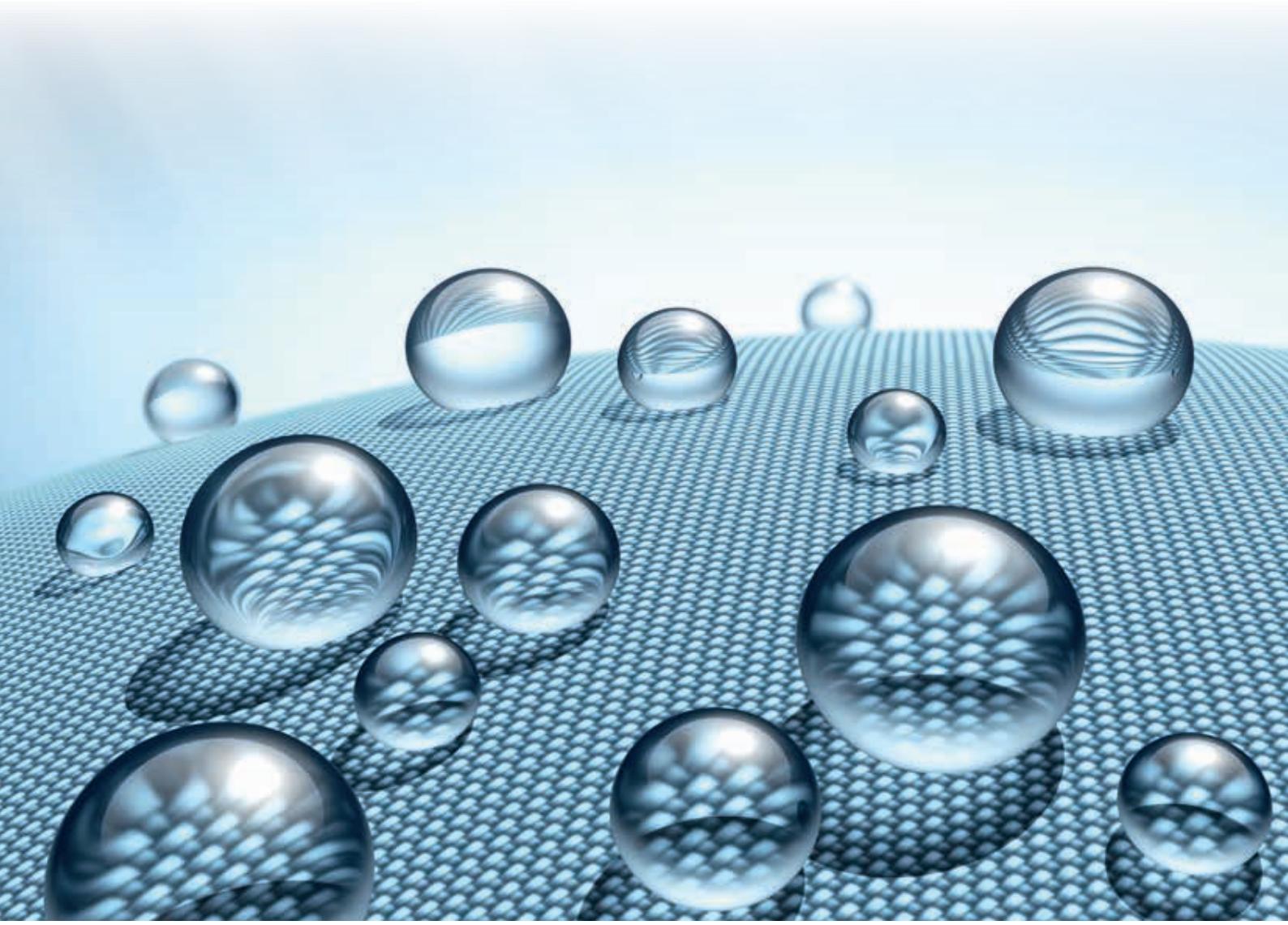
Single/Double sachets

We fulfill your wishes with

- Reasonable prices
- Workable MOQs
- Products Made in Germany
- Upon request our service also includes artwork creation

Liquid Glass Coatings

Consumer Products



(BALKONY) SOLAR PANEL COATINGS

Photovoltaic modules produce their best yield under optimal conditions. With our special coating, the amount of light transmittance to the PV cells increases. Cleaning becomes much easier, and the cleaning cycle requirement is significantly extended. These factors lead to an increased yield of your system.

THE PROBLEM WITH SOILING

Higher output with coating?

Soiling is not only caused by leaves, tree needles or pollen, but also by dirt particles in the air. Bird droppings can be particularly unpleasant and can even cause etching on the module surface. In addition, the edges of the solar panels tend to attract heavier soiling. This soiling ranges from salt and sand build-up to moss or lichen formation; depending on the location of the panel.

In principle, soiling on the photovoltaic modules acts like shading and this reduces the yield of the photovoltaic system. Depending on the degree of soiling, this reduction in yield can amount to between 10 and 20 percent. This makes it almost impossible to generate a decent return. In addition, soiling at the edges of the PV system leads to an increased need for repair and maintenance.

UP TO 10% MORE OUTPUT CAN BE GENERATED IN WET WEATHER CONDITIONS

PROPERTIES

- Advanced SiO2 technology which creates an invisible protective layer, approx. 100 nm (nanometres) „thick". Approximately 500 times thinner than a human hair, therefore no negative impact on light transfer.
- Protects the surface against abrasion and degradation
- Heat and frost resistant
- Resistant to sea water, and acid / alkaline 1.5 to 12.5 ph
- Water and dirt repellent
- Easy and quick application
- Can be applied at +10° to +30°C
- UV-stable
- „Easy-to-clean" effect (surfaces become easy to clean = time and cost saving. Heavy surface soiling is often washed off by rain)
- Coverage: Approx. 150m² with one litre
- Reduces the negative ecological (CO2) footprint when cleaning:
  - Less water is needed
  - Zero Chemical cleaning

ADDITIONAL BENEFITS ASSOCIATED WITH THE COATING SOLAR PANELS WITH LIQUIGLAS SOLAR PANEL PROTECTION:

- The negative impact of rain, snow, ice, and sun are significantly reduced
- Soiling deposits such as bird droppings, pollen, environmental pollution etc. become easy to remove or wash away during heavy rain = increased light/energy transfer.
- Pollution is normally „baked in" by the sun = reduction in the service life of the panels. Coated solar panels prevent the baking in of soiling agents, therefore significantly extending the working life of the unit

COMPLETE SET FOR PV INSTALLATIONS UP TO 70 M²

Content

- 500 ml Biosativa® Bio-Cleaner Concentrate 1:10 for pre-cleaning
- 1.000 ml Isopropanl Alcohol 99,9% for degreasing
- 500 ml Liquid Glass Coating 7601 (for appr. 75-100 m²)
- 100 dry wipes 25 x 16 cm for pre-cleaning
- 10 micro-fibre wipes 10 x 10 cm for application
- 5 micro-fibre wipes 30 x 30 cm for polishing
- 10 one-way gloves

COMPLETE KIT FOR BALCONY SOLAR PANELS UP TO 10 M²

Content

- 100 ml Isopropanol alcohol 99,9% for degreasing
- 50 ml Liquid Glass Coating 5575 (for approx. 10m²)
- 5 dry wipes 25 x 16cm for pre-cleaning
- 1 micro-fibre tissue 10 x 10cm for application
- 1 micro-fibre tissue 30 x 30cm for polishing
- 2 one way protection gloves

MADE
IN
GERMANY

Windscreen Coating

Product features

- high durability - up to 20.000 km
- reduced glare and light distortion at night
- significantly improves visibility in heavy rain
- easy-to-use
- for front + side windows
- strong hydrophobicity (water beads off)
- strong anti-stick properties
- excellent easy-clean performance
- invisible to the human eye (500 times thinner than a human hair)
- UV-stable with enormous abrasion resistance
- resistant to temperature change
- simple application (do-it-yourself)
- chemical-resistant (ph 2 to13)
- ice is easy to remove
- for cars, transporters, trucks, boats, caravans
- resistant to high-pressure cleaners and soft wash systems
- significantly reduced mosquito and insect adhesion.
- rain disperses from the windscreen (+50km / h) = clearer visibility even without wipers.

Double pack: Contents 2 kits

Content: *2 pre-cleaning wipes, 2 coating wipes* (each for 2m²), 1 micro-fibre wipe 30 x 30cm, 2 single use gloves

Instructions for use:

Preparation

The optimum temperature to apply the wind-screen coating is between +5 to +20°C. Do not apply at lower than 5°C or above 30°C. It is essential that the windscreen is completely clean before the application of the coating. In many instances the end user considers that a windscreen is clean after wiping the surface with a cleaning agent until it looks clean. This is not the case! Thorough preparation is required before applying our coatings. On average it takes a minimum of 5 minutes to clean a windscreen, however it may take 10 minutes to clean a highly contaminated windscreen. A clean screen = enhanced performance.

1. It is suggested that the windscreen is washed thoroughly with water and a microfiber cloth (not the one which is enclosed in the pack). Please ensure that no residues from cleaning agents are left on the surface as residues prevent the layer of SiO^2 (pure glass) from bonding. The layer formed is only 100nm thick (500 times thinner than a human hair). This layer is massively durable, but as can be imagined, this ultra-thin layer can only bond efficiently to a completely clean and dry surface. This initial cleaning will remove heavy contamination such as insect residue, traffic film etc. We do not suggest using washing-up liquid, as this places tenside residues on the windscreen. Surfactant-free cleaning agents are recommended. Rinse the screen thoroughly.

2. Dry the windscreen with a clean cloth or suitable kitchen roll/absorbent paper. Please note that the perimeter of the screen is often heavily soiled, and also drops of water can remain in this area. Wipe the perimeter of the windscreen, ensuring that any soiling agents are not transferred to the rest of the windscreen. Finally, wipe the windscreen wiper blades to remove heavy contamination.

3. Now put on the enclosed gloves, as a fingerprint can be 100 times thicker than the coating.

4. Deep clean the screen with the enclosed alcohol wipe (No. 1). All windscreens differ in the amount of contamination held within the micro scratches (all screens have such scratches). Wipe the screen with the supplied wipe or use a suitable alcohol cleaner. The cleaner must be free of any additional polishing agents. Continue to wipe the surface until the screen is completely clean. Ensure correct safety controls are followed when using alcohol. Follow the MSDS guidelines. Test alcohol cleaners such as IPA on an inconspicuous area.

5. After cleaning with the alcohol based wipe, allow the screen to dry and then buff the screen with one side of the enclosed micro-fibre.

Application

1. Apply the coating to the windscreen (wipe No. 2). Working quickly, ensure full coverage of the screen. Wipe with both vertical and horizontal actions to ensure full coverage. Continue wiping until the wipe becomes dry, (approximately 90 seconds when the temperature is 15-20 °C) It is recommended that the outer edge of the screen is wiped at the last moment to avoid any possible contamination of the central area of the screen. Finally wipe the coating cloth along the wiper blade rubber. The pre-impregnated wipe contains 6ml of coating. This is optimised for coating a car windscreen.
(Please use 2 coating wipes for lorries, vans or large vehicles.)

2. Allow the coating to dry for approximately 5 to 30 minutes. (5 minutes in warm weather eg. 25°C… 30 minutes in cool weather eg. 10°C).

3. After application the surface may look slightly “cloudy”. Buff the surface with the clean side of the enclosed micro-fibre to remove any residue which contributes to the cloudy appearance.

4. The coating takes 10 hours to fully cure, but the windscreen can be exposed to rain one hour after application. Avoid using the windscreen wipers within the first 10 hours, but in some instances they may have to be used. This can slightly reduce the length of time that the coating remains in place.
Do not apply the coating in damp or very humid conditions. The coating wipes within the kit will provide protection for a windscreen for approximately 1 year if applied correctly, based on average yearly figures in the UK.
Do not apply the coating in hot, direct sunlight.
Do not apply our SiO^2 based coating to windscreens which are coated with other agents such as car waxes, polishes etc.
Do not apply the coating to hot windscreens (in hot regions of the world it is best to apply the coating early in the morning or in the evening, when often the windscreen is cooler). Do not apply when the air temperature or glass temperature is greater than 30°C.The enclosed wipe will coat up to $2m^2$ if the temperature of the glass is up to 20°C higher glass temperature will reduce the coverage per wipe.

LiquiGlas®

MADE
IN
GERMANY

MOBILE PHONE
LIQUID GLASS COATING

Content: *2 pre-cleaning wipes & 2 coating wipes for glass and plastic (each wipe for 0,5 m²), 1 micro-fibre tissue, 2 gloves*

Product features

The application of a protective layer of liquid glass to a phone is very simple and the advantages are:

- Mobile phone becomes easy-to-clean
- Fingerprints can be removed with a dry wipe
- Water-repellent
- Screen gains significant protection against micro scratches
- Screen becomes approximately 30% harder
- Phone becomes „biostatic“, meaning the coating significantly inhibits the development of bacteria
- Gamma wave emissions are reduced significantly (Gamma waves are highly penetrative and damage human cells)
- No need for an unattractive protective film (significantly reduces plastic waste) and no bubbles
- Super easy and fast to apply
- Invisible / undetectable protection
- Usable for all mobile phones, including „Edge“ models
- Can also be used for the rear „glass“ of some mobile phone
- Protects the all-important lenses of mobile phones
- No impairment of the touch & button functions, scrolling becomes more pleasant („better haptic experience“)
- Sharper playback of videos
- Durable for approximately one year
- Award-winning technology
- TÜV tested (all claims are based on independent testing)
- Heat tolerant to approximately 250°

The main component of the coating is „SiO2“ (silicon dioxide = glass), these glass molecules are created from pure quartz sand, one of the most abundant raw materials in nature. SiO2 is used in toothpaste and it is also naturally present within the human body.

Preparation & application process

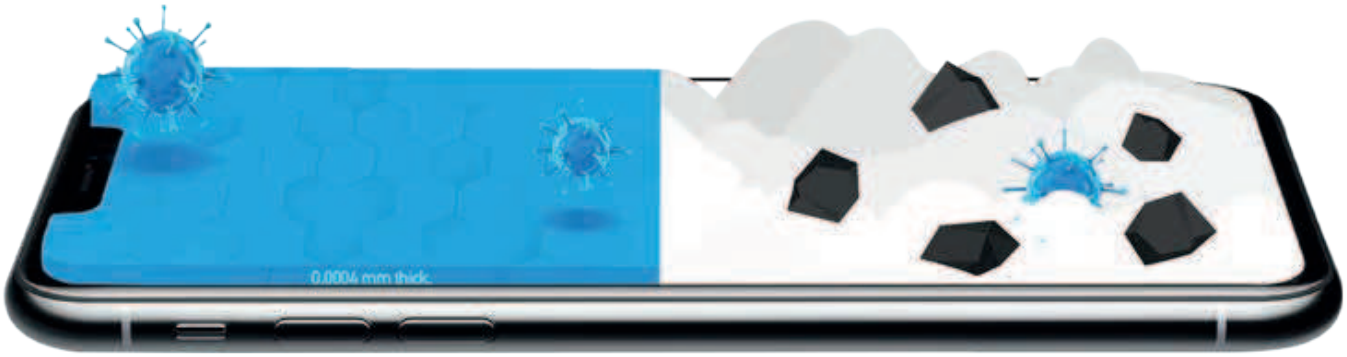
In order to gain maximum performance from the technology it is essential that the surface to be coated is completely clean.

1. Initially clean the surface with the enclosed micro-fibre tissue in order to r emove heavy soiling. Use one side only as this initial cleaning will deposit dirt on to the microfibre. It is essential that all residues are removed.
Please use the attached glove throughout the cleaning and application process. (A fingerprint can be 100 times thicker than the coating!)

2. Deep clean the surface with the pre-clean wipe and then after 30 seconds buff with the "clean side" of the enclosed micro-fibre tissue.

3. Wipe the surface with the application wipe.
The application process should be conducted speedily as the alcohol based wipe will dry within 90 seconds +/-. Ensure full coverage of the surface and continue to wipe until the tissue is dry.

4. Allow the surface to dry for a minimum of 30 minutes and then buff with the "clean" side of the enclosed microfibre tissue. Ideally the coating should be allowed to bond for the next 10 hours before heavy usage; however light handling/usage of the coated item is possible after 1 hr.



Certifications

The CCM® Liquid Glass Mobile Devices Coating has passed these TÜV tests:

- MSZ ISO 18593:2008: Microbiological Test
- MSZ 9640/41:1983 Scratch hardness test with spring ball rod
- MSZ EN ISO 15184:2013Pencil Hardness Test
- DIN 51 155 Impact Test
- Sessile drop method Water-Repellent, surface tension, contact angles
- ICP-MS MSZ EN ISO 17294-2:2005 Metal content of the wipes
- ICP-MS + XRF RoHs screening test

7650 Permanent Pro Easy On Quartz Ceramic Coating Easy to apply DIY Detailing Coating Technology

This highly advanced coating has been specially developed for the demanding requirements of the auto, aviation, marine, military and transport sectors. It is extremely resistant to corrosion, abrasion, and temperatures, and can be applied to metal, plastic, powder-coated, and painted surfaces. Curing can occur at ambient temperature but the additional application of heat is also advantageous. The coating forms an extremely strong bond with the surface, and creates an abrasion-resistant finish with very high resistance to solvents.

The thin and transparent coating possesses extreme stability, and a degree of hardness up to 9H can be achieved. Suitable for all kinds of vehicles (including vintage cars), motorcycles, caravans, and boats.

What is a Quartz Ceramic coating?

The 7650 Q² Quartz Ceramic Coating is a glass like coating based on silanes. This coating is applied by wiping on but in all instances it has to be buffed after application. After application, the 7650 coating is exceptionally easy to buff. The resultant layer provides a deep gloss with high hydrophobicity. The coating is neither paint, wax nor a sealant, and cannot flake off or be washed off. The coating forms a durable ("covalent") bond with the paint, and it can only be removed by strong abrasive forces. As noted, the coating provides a long lasting, highly glossy appearance, but as with all surfaces abrasion will eventually impact on the coating. The useful life of the coating will depend on the amount of abrasion that the surface is subjected to but re-application is a simple procedure. In order to maintain a high gloss do not wipe the surface with solvents.

What is 9H?

We use the familiar "pencil hardness" to describe the hardness of a layer. The measuring range is between 6B (smoothest) and 9H (hardest). The Auto and Aerospace 9H Ceramics Coating achieves a hardness grade of *8H (drying at indoor temperature) up to 9H (heat drying).

*The hardness of a coating is measured when the coating is applied to a metal test bed. If the coating is applied to a soft painted surface the hardness of the coating will remain constant but the underlying soft painted surface and the coating can be distorted if point loading pressure is applied.

www.quantum-quartz.com

Properties

- Clear, colourless liquid based on silanes. Contains solvents.
- Extremely abrasion-resistant, with very high adhesive properties, and high impact strength
- Hydrophobic, oleophobic and stain-resistant
- Suitable for spray or manual application. (If spray applied the surface must be buffed within 5-6 minutes of spraying.)
- After polishing the surface will become “ultra shiny”
- “Easy-to-clean” effect - surfaces stay cleaner for longer, and all cleaning becomes very easy, thus extending the cleaning intervals and reducing cleaning and maintenance costs.
- Highly effective for up to 72 months
- Application with electric polishing machine possible
- Material consumption for an entire compact saloon car, approx. 35-50ml for a compact saloon car (bigger cars such as a Range Rover would need more liquid)

Oxidation and corrosion resistance

Bare metal will oxidize over time, as will painted surfaces.
7650 Q² Quartz Ceramic Coating is very dense and it protects paint and metal against contact with water and oxygen, and is therefore a highly effective corrosion resistant layer.

7650 Q² Quartz Ceramic Coating can also be applied to:

Rims, head lights, windowpanes, door handles.
Also suitable for a wide range of other materials... non-ferrous metals, galvanized (zinc-coated) metals/steel, painted and powder-coated surfaces, anodized aluminium, and plastics.

50 ml	Art. No. 7650-50
100 ml	Art. No. 7650-100
500 ml	Art. No. 7650-500
1.000 ml	Art. No. 7650-1

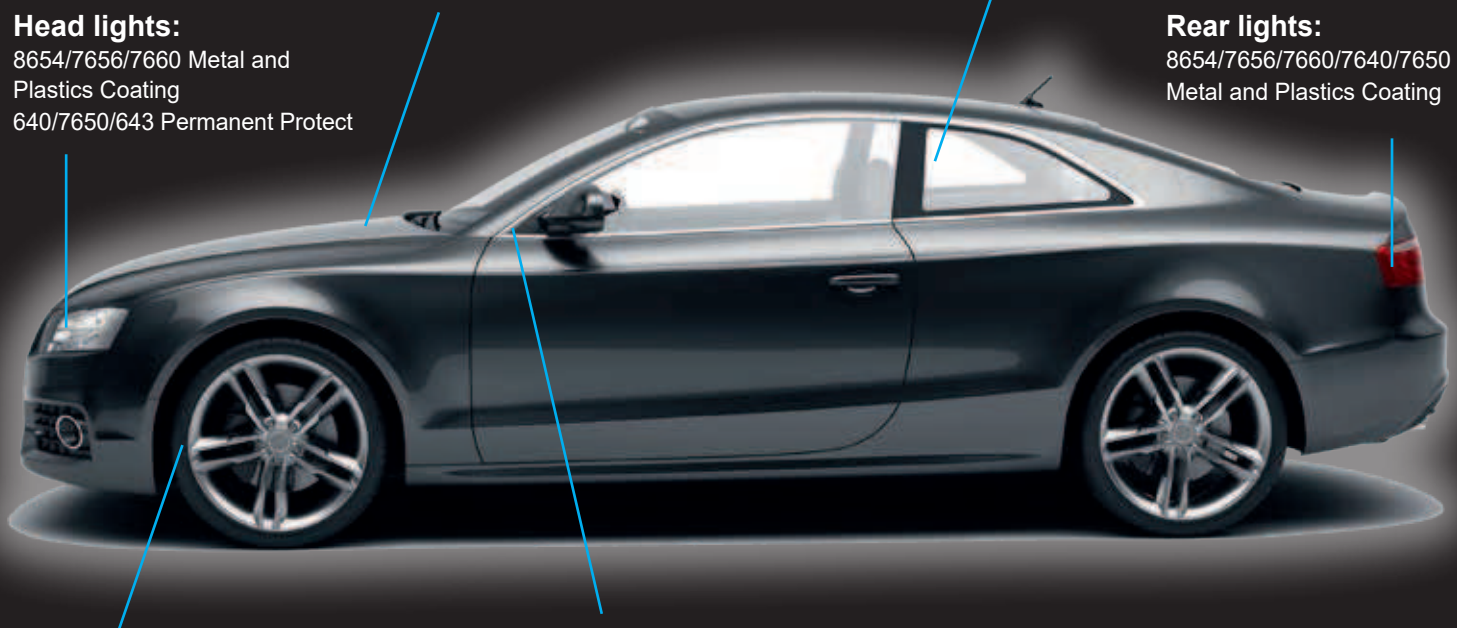
The CCM Range of Car Coatings

Bodywork:
8654/7656/7660 Metal and Plastics Coating
640/7650/643 Permanent Protect

Car glass:
7601 Glass and Ceramic Coating

Head lights:
8654/7656/7660 Metal and Plastics Coating
640/7650/643 Permanent Protect

Rear lights:
8654/7656/7660/7640/7650 Metal and Plastics Coating



Rims:
8654/7656/7660 Metal and Plastics Coating
640/7650/643 Permanent Protect

Trim (unpainted plastic):
8654/7656/7660 Metal and Plastics Coating
640/7650/643 Permanent Protect

Car, Boat, Camper & Aircraft Coating

Quick and Easy Application, water-based

- Provides excellent gloss with only gentle buffing
- It can be applied immediately after running a car through a car wash. It does not matter if the surface is damp
- Exceptionally easy to apply, simply “wipe and go”
- appr. 100 ml per car

8654 Quick Gloss is a highly innovative coating technology which has been developed for the enhancement of smooth surfaces such as auto / marine paintwork and plastics. It is very easy to apply and highly effective. The treated surfaces show a highly improved hy-drophobicity and associated easy clean characteristics. In addition the product gives a higher shine and colour intensity. This coating is more durable than most water-based technologies and offers good performance for over 6 months when applied to car paintwork (real time testing after 6 months and 5,000 miles of driving. Repeated use of car washing machines will impact on the life of the coating).

Most significantly this coating is exceptionally easy to apply and a car can be fully protected within minutes.

- Functional in a few minutes
- Not silicone based
- Not sensitive to UV
- Thinner than a typical “wax” layer
- More durable than standard auto wax coatings
- Lasts for approximately 6 months
- Re application is very easy
- No VOCs
- For Autos, Marine and Private Aviation

Application:

Use undiluted. Ideal application temperature between 5°C and 35°C (surface temperature). Any residues of polish or wax on the target surface may harm the bonding of the **8654 Quick Gloss** coating. Clean the surface and remove any loose dirt (it is of course best if the coating is applied to a clean surface).

Spray the target surface with a light film of water. Next, spray **8654 Quick Gloss** on the moist surface and buff / dry it immediately with a lint-free cloth (do not use a microfibre cloth). Continue to buff until all droplets disperse. The product is active immediately.

Alternatively, the product can also be applied on a clean, dry surface.

If the product dries too rapidly or if there is an over application of the coating, “white stripes” may become visible. They can be eliminated by adding a small amount of new product and polishing the surface again.

The product may be stored for at least 24 months unopened in its original packing.

Protect from frost and direct sunlight.

HOT STUFF®

Sneaker Guard PRO

for up to 4 pairs of sneakers

The ultimate sneaker protection

- ultra strong stain protection
- water and oil repellent
- very durable – machine washable at 30°C(min. 10 times / eco wash)
- self-healing, heat the shoe after washing in order to stimulate self healing action
- for all types of sneakers made from fabric and suede (not optimized for smooth leather shoes)
- ultra strong stain protection, suitable for military use
- easy-to-use
- no color change
- water-based
- free from propellant gas and CFCs
- biodegradable
- not tested on animals

Contents

- 2 x 5 ml concentrate (5ml create 100ml coating = for 1-2 pairs of shoes)
- 1 empty 100ml spray bottle
- 4 gloves

APPLICATION INSTRUCTIONS

Hot Stuff® is a high performance coating technology. In order to gain optimum performance the surface being coated should be completely clean, dry and free from other coatings.

1. Remove the empty bottle from the pack and unscrew spray-head.
2. Cut the corner of the sachet containing the Hot Stuff® concentrate and place the concentrate into the empty bottle.
3. Fill the spray bottle with water, screw on the spray head and shake well (for approx. 20 seconds).
4. Wear protective gloves.
5. Spray shoes thoroughly. The fabric should be fully moistened. Wipe the surface, with gloved hands, ensuring that the liquid is fully dispersed into the fabric. For optimum protection it is suggested that laces are removed prior spray coating. Spray the laces separately.
6. Allow the shoes to „air-dry“ (preferably overnight) This is the recommended process. Alternatively the shoes can be heat dried immediately after coating. The drying time when heat drying from wet varies greatly depending on size, fabric and drying method.
7. When the shoes are completely dry (after air drying) use a hair dryer to warm each shoe THOROUGHLY. As a guideline heat for at least 5 minutes per shoe. Alternatively, the shoes can also be heated in a tumble dryer. In most instances, a 20 minute cycle at full heat is sufficient.

IMPORTANT: The Hot Stuff® coating is activated by heat. Inadequate application of heat will result in poor performance. The activation of the coating starts at a minimum temperature of 50°C. The target temperature is in the 50°C to 80°C range. Do not spray onto skin or eyes.

READY! Your shoes are now protected with a high performance, self-healing coating.

MADE
IN
GERMANY

Anti-Fog Spray

Spray & Go

for spectacles, Ski Goggles,
Motor cycle visors, mirrors etc.

- **Easy to apply**
- **immediate performance**
- **durable**

Content: *10 ml Anti-Fog, 1 micro-fibre tissue 10 x 10cm*

without **with**

Anti-fog coatings last for several days, but the coatings have to be reapplied. In most instances a weekly „touch-up“ is recommended. The 10ml in this bottle is sufficient for approx. 10 x coatings of both lenses (on both sides) of a pair of spectacles.

Areas of application:

Polycarbonate and glass surfaces including spectacles, ski goggles, motorcycle visors and vehicle windows (interior);
in fact on any surface which is prone to fogging.

Application:

1. Clean the surface
2. Spray Anti-Fog onto a small part of the enclosed micro-fibre tissue
3. Wipe the target surface (both sides of spectacle lenses)
4. Allow the coating to dry for as long as possible. Coated spectacles can be used after 1 minute, when the surface is „clear“, but ideally allow for a minimum of 15 minutes drying at room temperature before use.
5. If a slight “film” is visible on the surface, gently wipe with the dry part of the microfibre tissue.

Keep out of the reach of children.

BIOSATIVA®

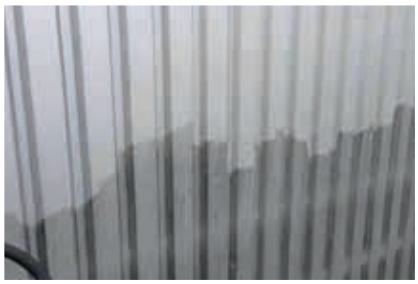
CLEANING WITH THE POWER OF NATURE!

Steam Cleaning in a bottle. The completely biodegradable cleaning concentrate.

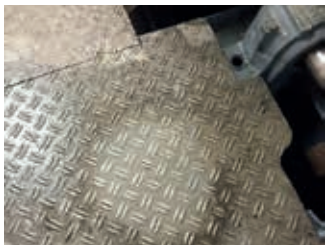
- high-performance cleaner
- created from sustainable natural ingredients
- environmentally compatible
- completely biodegradable
- gentle to materials and surfaces
- dermatologically harmless (skin-friendly, also suitable for allergy sufferers)
- exceptionally strong cleaning action
- non-corrosive
- pollutant-free
- solvent-free
- non-toxic for humans, animals & environment
- no "hazardous goods" labelling necessary
- non-dangerous goods
- Winner of the prestigious Green Apple Award. This International Environmental Award was presented to Biosativa® in recognition of it's status as Europe's most environmentally-friendly product
- Confirmed by DEKRA as „Suitable for use within the food sector"

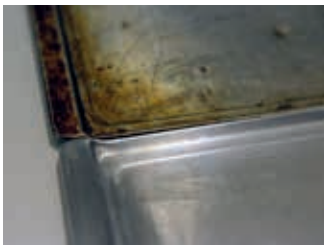
Art.-No.	Bottle / Canister
BS2122-1	1-Litre-Bottle (MOQ: 100 Litre)
BS2122-10	10-Litre-Canister
BS2122-IBC	1.000-Litre-IBC-Container

GREEN APPLE AWARD WINNER



One cleaner for all cleaning needs. Ecologically beneficial.
Testing confirms that Biosativa® reinvigorates contaminated water and soil.



Applications & Dosage

INDUSTRY:

Machines – apply with spray bottle, brush & cloth: 1:5 - 1:20

Buildings, facades, surfaces etc.: 1:10 to 1:100
(depending on soiling and surface technology)

Tyre abrasion from fork-lifts and other equipment on hall floors: 1: 5 spray, agitate the surface, allow to take effect and then remove residue.

BASIC CLEANING:

Floors of all kinds (concrete, tiles, PVC, linoleum, epoxy, etc.): 1:5 - 1:100

Surfaces of all kinds in maintenance cleaning: 1:20 - 1:100

Soot and carbon materials – suitable for post-fire restoration: 1:5 - 1:30

Odour removal: Due to it's highly effective cleaning properties, Biosativa® aids the removal of bacterial accumulations, and as a result odours are also removed or greatly reduced.

AUTOMATIC CLEANING:

Floors and surfaces of all kinds: 1:20 - 1:100 (depending on soiling)

KITCHEN:

Surfaces, stoves, floors, kitchen appliances: 1:5 - 1:50 (depending on soiling & technology)

HIGH-PRESSURE CLEANING:

Up to 95°C using standard cleaning machines: 1:25 - 1:100
Biosativa® can be used on a wide range of heat-tolerant surfaces eg. facades.
The removal of algae and other similar organic matter can be undertaken: 1:10 to 1:100
Carpets with spray extraction device: 1:20 - 1:80 (with warm water)

AGRICULTURE:

Stables, storage areas, livestock areas, silos, tractors, tools and greenhouses: 1:5-1:30

VEHICLE CLEANING:

Manual application for inside and outside the vehicle with spray bottle, sponge, brush & microfibres: 1:10 - 1:30

Biosativa® is a highly active cleaner when used in low concentrations.
Always test on an inconspicuos area before large scale usage.

Your active contribution to environmental protection.
One Shot Does The Lot! Made in Germany.

weitere Informationen

Easy Clean Graffiti Protection

7626 Easy Clean Graffiti Protection at its best!

A one pack single coat permanent non-sacrificial coating giving excellent protection against fly poster and graffiti attack. The product allows easy repeated removal of graffiti by using water/detergent. NOT a temporary or sacrificial, semi-permanent graffiti protection.

Main advantages:

- Transparent
- Permanent System (functional for up to 20 years and at least 20 times graffiti removal cycles)
- Graffiti is removable, in most instances, with cold water and without chemicals
- Easy to re-coat in case of damage

7626 Graffiti Protection is ideally suited for locations which encounter regular graffiti vandalism. It offers enormous flexibility in terms of application. It can be applied to almost all surfaces. The layer itself is also flexible and this characteristic is the reason why graffiti is unable to bond effectively, thus creating a world leading, vandal resistant finish.

7626 Graffiti Protection is completely resistant to ALL paints, permanent markers, inks and the majority of acids. Simply wash with water and graffiti disappears and posters just slide off, providing permanent protection against graffiti attack – without ghosting residue. Prevents the leaching of pigments into the building surface.

7626 Graffiti Protection is ideal **(without primer)** for the following applications:

- Aluminum Siding
- Concrete (tunnels, train route walls, noise barriers, bridge structures, masonry etc.)
- Fibreglass
- Glass*
- Masonry (includes brick, marble, (natural) stone, clinker, tile and granite)
- Metal*
- Plastic*
- Steel
- Street Signs
- Stucco
- Utility Boxes
- Vinyl Siding
- Wood

**Bonding to polished and smooth surfaces is not as profound as bonding to roughened or porous surfaces.*

Not applicable to plexi glass®

Attributes:

Single Component System – very strong bonding

One coat in most cases is sufficient (some highly porous surfaces, e.g. sand Stone, may require a non-darkening primer coating or 2 coats of 7626 Graffiti Protection which can be applied within 30 minutes in hot environments and 3-4 hours below 20°C).

Open the can and roll it on. No mixing and no messing means less labour cost. In most instances the coloured variants can be used to „paint over“ existing graffiti.

Also usable to protect „good graffiti“ (graffiti art).

It does not bond strongly to smooth surfaces such as stainless steel.

Tough resilient finish

Unlike most anti-graffiti systems, 7626 Graffiti Protection cures to an easy clean layer – with just one coat.
The surface can be cleaned without using any graffiti remover. It is just enough to use a high pressure washer (max. 80 Bar) or a soft brush. The surface offers a long protection lifetime and cleaning cycles over several years.

Rapid Curing

It‘s easy to apply, so it‘s not time-consuming, it means low labor costs and the coating is functional within hours.

Prolonged Protection – Zero Ghosting

Graffiti can normally be removed quickly and easily using just water. In most instances graffiti removal liquids are not necessary It won’t show any ghosting. There is no need for reapplication after the graffiti has been removed. The clear finish does not yellow over time.

Clear and coloured

Available in a clear finish and in all RAL colors, MOQ 100L for coloured variants.

Long Term Protection

No „Dangerous Goods“ shipping fees

Primer

(where necessary, only on very porous surfaces, e.g. sand stone)

Standard water-based PVA co-polymer primer/sealer

Graffiti-Remover & Cleaner

Available on request.

Graffiti Protection for Good Graffiti

Technical Summary:

Colour	Clear or Pigmented Liquid
Dilutable	No
Application	Application with brush roller or airless spray, (it can't be applied with a conventional hvlp spray). Airless: - 16 thousand size tip or higher - cleaning: Nappy (white spirit)
Breathable	Yes
Urine-resistant	Yes
Paintable	Only with this pigmented Graffiti Protection 7626, not with standard paints
Volume Solids	78% Matt; 78% Gloss; 48% pigmented
Recommended Film Thickness	depending on substrate and porosity, normally between 50-80 microns DFT
Coverage Rate	6 to 8 square metres per litre, when applied to a smooth surface with a fine pile 4 inch/10 cm roller. This will create a coating of appr. 70 microns. This is the minimum functional coating thickness. A slightly thicker coating at approximately 130 microns creates a more stable, longer lasting coating. (eg polycarbonate paneling often used at the side of motorways). Porous surfaces such as brick stone etc. should have a WFT (wet film thickness) of 150 microns which dry back to about 115 / 120 DFT (dry film thickness) subject to the porosity of the surface.
Drying Time	Touch dry 3 / 4 hours; full cure 24 hours. Recoating (if required) time 3 to 4 hours
Brushwash	Disposal
Weight Per Litre	0.90-1.02
Flash Point	Above 64°C
V.O.C.	50 grams per litre
Viscosity	76% high solids
Finish	Gloss – Semi Matt
Gloss Reading	62-68 degree reflectance angle. Ideally applied to Semi Gloss Satin, Eggshell and Mette painted surfaces.
Application Temperature	-5°C / +60°C
Temperature Resistance	-40°C - +50°C
Storage Temperature	+5-+25°C, out of direct sunlight
Shelf Life	1 Year
High Pressure Cleaner	Max. 80 bar at 30-40cm distance (flat jet nozzle, NOT dirt milling machine or point jet nozzle, apply the nozzle from the outer edge of the graffiti to be removed)
Surface Preparation	All surfaces must be clean and dry, remove any soiling by power wash etc. Any soiling/graffiti apparent on painted surfaces i.e. masonry/rendered walls should be re-painted with good quality masonry exterior paint, prior to application. Non-Darkening Primer should be considered for application prior to top coat on all sandstone/brick surfaces. The rougher the surface the better the bonding.
Bundle	5 liter canister 20 liter canister
Art. No.	7626-5 7626-20

Essential Characteristics	Performance	Harmonised technical specification
Water Vapour Permeability	Class V2	EN ISO 7783-2
CO_2 Permeability	>S0m	EN ISO 1062-6
Fire Rating	Class 1	BS 476 Part 7
Fire Rating	Class 0	BS 476 Part 6

Q²

Quantum Quartz

ULTRA-COATING SOLUTION

ADVANCED LIQUID GLASS TECHNOLOGY
A.L.G.T.®

www.quantum-quartz.com

CCM offer a world class portfolio of coatings, for almost all surfaces known to man, including the wide range of surfaces found in the auto, marine, healthcare, industrial, sporting, agricultural, aviation, military and domestic environments. The coatings range from simple „wipe and go“ type coatings, to ultra-durable, military grade coatings which are designed for professional application.

The Q² Quantum Quartz is not simply a brand, it is an exact description of the make up of our technology. The coatings are predominantly based on SiO^2 (Quartz) and the bonding processes involved in establishing our coatings are measured at the Quantum level.

The Q² Quantum Quartz range of protective coatings, ranging in thickness from approximately 500 times thinner than a human hair to the thickness of a human hair, are our premium quality coatings.

Overview from nano scale to micron scale:

7660 “Polish” 2 in 1

This coating is loved by car detailers. It provides an amazingly “low friction” layer. It is very easy to apply, simply wipe on and buff (e. g. by using a polishing machine). It can be used for internal and external surfaces and it provides a super smooth, easy to clean, hydrophobic surface. It is not designed to be a highly durable coating but it will still last for 3 to 6 months on the exterior surface of a car.

8654 Q² Quantum Quartz Quick Gloss (water based)

This coating is an exceptionally easy to apply yet durable and long lasting coating. It is designed to provide a quick and easy hydrophobic coating. Simply spray the coating on to the target surface, usually external paintwork, plastic seating, (boats) stainless steel fittings etc.. After spraying on the water based liquid, simply wipe the surface and lightly buff if required. It takes seconds to apply and will last for 6 to 12 months depending on washing routines. Very easy to re-apply.

7656 Q² Quantum Quartz Plastic-Metal Premium

This is a highly durable DIY liquid glass coating. It requires greater care when preparing for application. In order to gain maximum performance from this coating, it is important that all target surfaces must be perfectly clean and dry. The coating is applied in seconds. Simply wipe this liquid glass on to the surface and then buff some minutes later. It will withstand many tens of thousands of wiping actions. It is suitable for stainless steel, plastic and painted surfaces, eg. headlights, body work, instrument panels, bridge windows, aircraft windows, motor cycle visors, cockpit areas, oven tops. It is heat resistant to 250°C.

643 Q² Quantum Quartz Easy On

This coating is like a “supercharged 7656”. It is applied in the same way, by wiping, but it is a significantly more durable coating as at approximately 900 nano meters in film thickness it is approximately 9 times thicker than 7656. It can be applied to metal, plastic, glass and painted surfaces. It provides a super durable, non-staining hydrophobic coating which will last for several years on the bodywork of a car, boat hull or aircraft. The coating, which provides a super glossy surface is also highly resistant to solvents, acids and alkalis. It is also massively heat tolerant. This coating can be used on almost all non-porous surfaces and it is fast and easy to apply.

7650 Q² Quantum Quartz Permanent Pro Easy On – Quartz Ceramic Coating – Our Premium Quality

The first „Ceramic Coating“ for non-professional application. This coating offers outstanding performance. It is massively durable, is supplied on a global basis to car detailers and is regularly applied to some of the world’s most expensive cars. It is applied by simply wiping on to the target surface. When applied the coating provides an ultra-durable, high gloss, stain-resistant, graffiti-resistant, heat tolerant, anti-corrosive, UV stable, hydrophobic coating. The coating will last for many years.
This highly advanced coating has been specially developed for the demanding requirements of the auto, aviation, marine, military and transport sectors. It is extremely resistant to corrosion, abrasion, and temperatures, and can be applied to metal, plastic, powder-coated, and painted surfaces. Curing can occur at ambient temperature but the additional application of heat is also advantageous. The coating forms an extremely strong bond with the surface, and creates an abrasion-resistant finish with very high gloss and high hydrophobicity.

Comparison of our Premium Coatings for car painting and rims from nano scale to micron scale:

	7660	8654	7656	643	7650
Application	Very easy, simply wipe on and buff off	Very easy, simply wipe on and buff lightly	DIY - clean, apply with care and buff after curing	For skilled application	For DIY and professionals
Application Temperature	-25°C to +80°C, suitable for application in direct sunlight	0°C to +45°C	+5°C to +30°C	-5°C to +40°C	+5°C to +35°C
Durability	3 to 6 months	6 to 12 months	12 to 24 months	Up to 36 months	Up to 72 months
Curing Time	12 hours at 20°C (car usable after one hour)	5 minutes (car immediately usable)	12 hours at 20°C (car usable after one hour)	24 hours for water resistance, 6-7 days for abrasion resistance (car usable after 5 hours)	7 days at room temperature (car usable after 5 hours)
Perl effect	Medium	High	High	High	High
Gloss effect	High	High	High	High	High
Scratch resistance	✔	✔	✔	✔✔✔	✔✔✔✔
Per Mid-range Car	Approx. 100ml	Approx. 100ml	Approx. 50ml	Approx. 50ml	Approx. 50ml
Consistence	Emulsion, solvent free (no waxes or solvent silicones)	Liquid, water-based	Liquid, alcohol-based	Liquid, multi solvent-based	Liquid, multi solvent-based
Resistant to Frost	Yes	Yes	Yes	Yes	Yes
UV resistant	Yes	Yes	Yes	Yes	Yes

Further recommended products:

7601 Windscreen Coating

This coating offers exceptional performance. It is quick and easy to apply and makes driving in rain significantly safer.
Once you have driven with this coating on your windscreen you will never wish to drive without it. Please refer to our online videos.

7689 Textile Coating (water based)

This water based coating can be applied to almost all fabrics. Simply spray the coating on to the fabric and allow it to dry. After curing the fabric becomes massively resistant to abrasion and staining.

7683 Rapido Leather & Fabric Protection

This is a rapid curing coating for leather and fabric. It also bonds to painted leathers, it offers deep penetration, excellent olephobicity & hydrophobicity and long term protection.

A World Class Coating:
7650 Q² Quantum Quartz 9H

This highly advanced coating has been specially developed for the demanding requirements of the auto, aviation, marine, military and transport sectors. It is extremely resistant to corrosion, abrasion, and temperatures, and can be applied to metal, plastic, powder-coated, and painted surfaces. Curing can occur at ambient temperature but the additional application of heat is also advantageous. The coating forms an extremely strong bond with the surface, and creates an abrasion-resistant finish.

The thin and transparent coating possesses extreme stability, and a degree of hardness up to 9H can be achieved. Suitable for all kinds of vehicles (including vintage cars), motorcycles, caravans, and boats.

What is a Quartz Ceramic coating?

The 7650 Q² Quartz Ceramic Coating is a glass like coating based on silanes. This coating is applied by wiping on but in all instances it has to be buffed after application. After application, the 7650 coating is exceptionally easy to buff. The resultant layer provides a deep gloss with high hydrophobicity. The coating is neither paint, wax nor a sealant, and cannot flake off or be washed off. The coating forms a durable ("covalent") bond with the paint, and it can only be removed by strong abrasive forces. As noted, the coating provides a long lasting, highly glossy appearance, but as with all surfaces abrasion will eventually impact on the coating. The useful life of the coating will depend on the amount of abrasion that the surface is subjected to but re-application is a simple procedure. In order to maintain a high gloss do not wipe the surface with solvents.

What is 9H?

We use the familiar "pencil hardness" to describe the hardness of a layer. The measuring range is between 6B (smoothest) and 9H (hardest). The Auto and Aerospace 9H Ceramics Coating achieves a hardness grade of *8H (drying at indoor temperature) up to 9H (heat drying).

*The hardness of a coating is measured when the coating is applied to a metal test bed. If the coating is applied to a soft painted surface the hardness of the coating will remain constant but the underlying soft painted surface and the coating can be distorted if point loading pressure is applied.

Properties

- Clear, colourless liquid based on silanes. Contains solvents.
- Extremely abrasion-resistant, with very high adhesive properties, and high impact strength
- Hydrophobic, oleophobic and stain-resistant
- Suitable for spray or manual application. (If spray applied the surface must be buffed within 5-6 minutes of spraying.)
- After polishing the surface will become "ultra shiny"
- "Easy-to-clean" effect - surfaces stay cleaner for longer, and all cleaning becomes very easy, thus extending the cleaning intervals and reducing cleaning and maintenance costs.
- Highly effective for up to 72 months
- Application with electric polishing machine possible
- Material consumption for an entire compact saloon car, approx. 35-50ml for a compact saloon car (bigger cars such as a Range Rover would need more liquid)

Oxidation and corrosion resistance

Bare metal will oxidize over time, as will painted surfaces.
7650 Q² Quartz Ceramic Coating is very dense and it protects paint and metal against contact with water and oxygen, and is therefore a highly effective corrosion resistant layer.

7650 Q² Quartz Ceramic Coating can also be applied to:

Rims, head lights, windowpanes, door handles.
Also suitable for a wide range of other materials... non-ferrous metals, galvanized (zinc-coated) metals/steel, painted and powder-coated surfaces, anodized aluminium, and plastics.

50 ml	**Art. No. 7650-50**
100 ml	**Art. No. 7650-100**
500 ml	**Art. No. 7650-500**
1.000 ml	**Art. No. 7650-1**

All Coatings can also be used on:

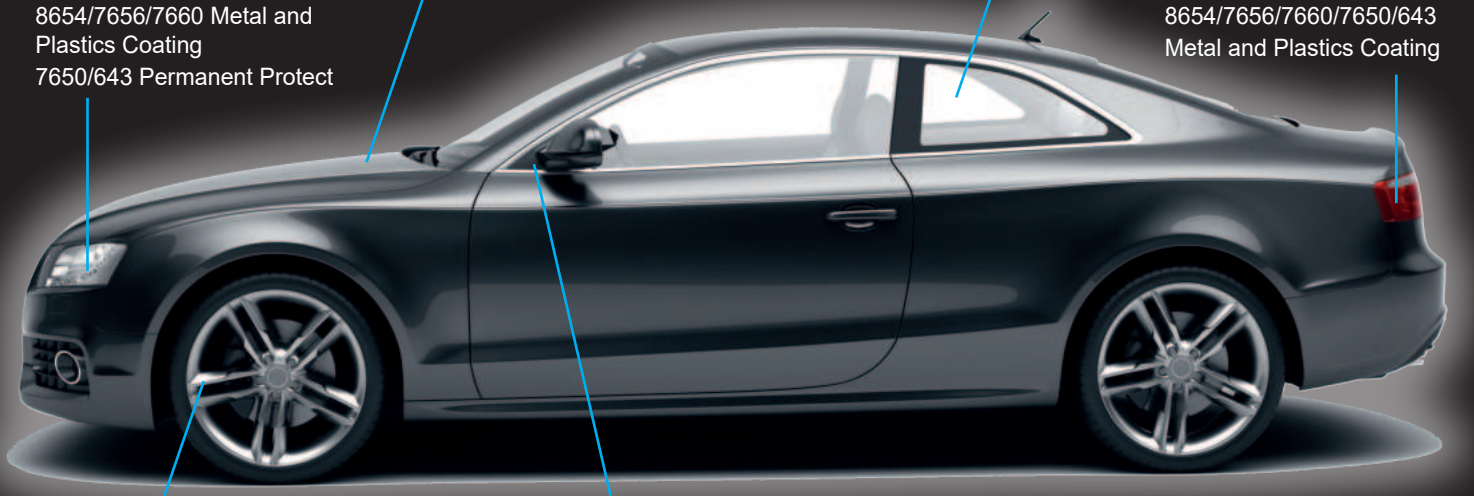
The CCM Range of Car Coatings

Bodywork:
8654/7656/7660 Metal and Plastics Coating
7650/643 Permanent Protect

Car glass:
7601 Glass and Ceramic Coating

Head lights:
8654/7656/7660 Metal and Plastics Coating
7650/643 Permanent Protect

Rear lights:
8654/7656/7660/7650/643 Metal and Plastics Coating



Rims:
8654/7656/7660 Metal and Plastics Coating
7650/643 Permanent Protect

Trim (unpainted plastic):
8654/7656/7660 Metal and Plastics Coating
7650/643 Permanent Protect

Seats:
Fabrics: 7689/7683 (mixed with water)
Leather (natural):
non painted: 7683 Leather (mixed with alcohol)
painted / coated: 7656

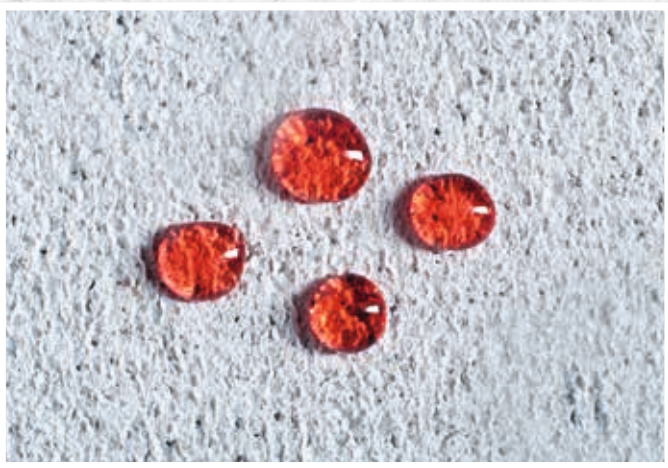
Dashboard:
Metal and Plastics:
7656/7660/7650

CCM®
Creative Chemical Manufacturer

Multi-QR-Code zu allen CCM Kanälen

CCM GmbH
Diepenbroich 8 | D-51491 Overath / Germany
Fon +49 (0) 2206 / 938590-0 | Fax +49 (0) 2206 / 938590-99
www.ccm-international.eu | www.youtube.com/CCMGermany

Stone Coatings



695 Universal STW / 697 (Concentrate)

Universal Coating for absorbent surfaces (Stone, Textile & Wood)

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
+5 to +50°C	5 - 40 m² (depending on the structure of the substrate)	Up to 2 years	Up to 24 months, depending on the variant	+5 to +25°C	12 hours

Universal coatings are „easy to apply" coatings which offer the same "very good" performance characteristics on all appropriate substrates, however, for the highest level of performance we suggest the use of our „substrate specific" coatings. The universal coatings are perfect for consumers, as they are DIY variants and highly effective.

PROPERTIES

- Aqueous, room temperature curing impregnation for textiles (PES, Cotton, PA and mixtures), stone & wood
- Exceptionally versatile, no odour.
- Can be applied to almost all absorbent surfaces
- Excellent performance
- Hydrophobic and oleophobic
- generates a nano scale film on the surface of the fabric fibres and filaments
- Reduces significantly the penetration of water, soot, coffee, cola, ketchup, red wine and other staining agents into the fibres
- The penetration of cooking fat, fuel, waste oil and dry soiling agents into the structure of the fibre is reduced and as a result many soiling agents can be easily removed
- Includes organo functionized silanes
- Water-based
- Optimised for highly absorbent mineral surfaces
- Reduces adhesion of micro-organisms
- Excellent acid and alkaline resistance (approximately 2-12 pH in diluted form)
- Coverage rate per litre: 4 - 40 m² (depending on the structure of the substrate), heavy carpets requires the application of more liquid than fine silk in order to effect a coating
- Durability of the coating: Up to 2 years in normal use e.g. domestic carpet with high footfall
- Offers contact protection for leather and fabrics. Soiling agents should be removed within 2 to 3 minutes to prevent staining
- Breathable (not suitable for protecting marble against acidic vapour!)
- Nano particle free
- No DG / VOC free
- Layer thickness approx. 20 - 200 nm
- Inorganic

ATTRIBUTES

Attributes	695/697
Water-based	Yes
Application	Very easy
Room curing	12 hours
Fluoriated agent content	PFOA and PFC free (below the declarable level)
Shelf Life of the Liquid	24 months
Concentrate	1:9 (for stone) -1:14 (for textile)
Note	Don't use on white, low quality textiles

PACKAGING & SHIPPING

Attributes	695	697
1 000 ml bottle	*695-1*	*697-1*
200 litre barrel	*695-200*	*697-200*
1 000 litre IBC	*695-1 000*	*697-1 000*
HS Code	3910 0000, no DG	3910 0000, no DG

further information

Video how to mix the concentrate

7620 Penetrating Stain Protector

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
+5 to +30°C	8 - 50 m², depending on the absorbency of the stone	10 - 20 years or decades, depending on the nature of the stone	Plastic bottles: 5 - 10 years Alloy bottle: Unlimited	+5 to +30°C	48 hours

This coating is designed to penetrate deep into the structure of the stone. After it has become established in the stone it provides strong hydrophobic and oleophobic protection. Specifically developed for natural stone and cementitious surfaces. This coating will remain highly effective for approximately 10-20 years. (Top up coatings for areas subjected to high abrasion or repeated cleaning, can be completed in minutes) This coating can be used on floors and on work surfaces including hybrid stone. As the coating becomes enmeshed within the surface structure of the stone it also provides excellent anti-weathering characteristics which significantly impede degradation and water ingress. It should not be applied to wet or moist stone. The coating provides very good resistance to staining but it is not permanently resistant against staining from liquids such as lemon juice, red wine, olive oil etc. We recommend our "Permanent Protector" 704 or Anti-graffiti coatings for protection against such staining. In high abrasion areas such as public squares, promenades etc. benefit from a light top up coating each year in order to maintain very good stain reistance.

PROPERTIES

- Contains solvent (not water), no formation of sticky Silicon films
- Suitable for internal and external usage, it performs exceptionally well on smooth or rough materials.
- Can be applied to large areas by spraying
- Time saving one step application - no residue after application
- Permeates up to 25 mm deep (depending on the stone structure)
- Highly durable, offering protection for 10-20 years or decades, depending on the nature of the stone and the application process utilised
- The coverage rate varies depending on the absorbency of the stone, approx. 8-14 m² per l for highly absorbent stone to approx. 20-50 m² for less absorbent stone, such as granite
- No negative impact on the consistency of the stone
- Enriches stone colours
- Coated surfaces remain breathable
- Strong oleophobicity and associated stain resistance
- Resistant against frost, UV light (California Test - 24,000 hours or 5 years of sunshine), salt attack (e.g. chlorides), staining, higher pH levels found in new masonry and pointing, water ingress, soiling, pollution, vegetation and extremely resistant to abrasion
- Water/dirt-repellent, the coating reduces the amount of moisture on the surface & therefore minimises the growth of mould, moss & algae as well as discoloration due to air pollution
- Reduces significantly the uptake of water and soluble salts (e.g. chlorides)
- Helps avoid unsightly dark water streaks
- Easy to clean effect, treated surfaces remain cleaner for longer
- Considerably reduces the amount of maintenance work required on stone buildings and it provides a cosmetically stable appearance and mechanically stable structure for many years
- Soiling is easily removed with water and other agents such as BIOSATIVA®, our award winning Bio Cleaner
- Not affected by chlorine or salt water, making it ideal for pool areas while ensuring that after coating, the surface remains unchanged
- Not affected by steam diffusion through the treated materials and has the top rating in Europe for active gas permeability e.g., being able to "breathe" so there is no build-up of subsurface moisture (EN ISO 7783-2, Classification I, Sp<0.14m)
- Thermal efficiency of walls is improved as stone sealer prevents water ingress
- Can be used as part of a flood protection system for a building
- Highly effective as a waterproofing membrane
- Contains aroma free Naphtha, therefore oily liquids have to be removed from the surfaces within minutes after soiling. The coating is not permanently resistant against staining from liquids such as lemon juice, red wine, olive oil etc. We recommend our "Permanent Protector" or Anti graffiti coatings for protection against such staining.
- Anorganic silan-siloxan mixture
- Mostly inorganic
- Certain highly absorbent concrete may require 4m² per litre.

APPROXIMATE COVERAGE RATES PER M²

- Concrete (excluding hybrid concretes with significant levels (more than 1%) of added acrylic compounds or other similar plasticising agents), approx. 10 - 30 m² / litre, depending on the density of the concrete).
  Testing above these ratios is advised.
- Tiles, unglazed/porous (approx. 20 - 40 m² / litre)
- Roofing tiles (approx. 15 - 25 m² / litre)
- Brick/masonry (approx. 20 - 30 m² / litre)
- Limestone (approx. 15 - 25 m² / litre)
- Sandstone (approx. 8 - 15 m² / litre)
- Mineral plaster (approx. 15 - 30 m² / litre)
- Marble & polished marble (approx. 30 - 50 m² / litre)
- Granite – polished granite (approx. 40 - 70 m² / litre)
- Natural stone (approx. 10 - 30 m² / litre)
- Slate (approx. 15 - 30 m² / litre), slate becomes slightly darker
- After application as oxidation and abrasion is reduced. Coated slate retains an "as good as new appearance" for a prolonged period)

No concentrates available

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
7620-1	1 000 ml bottle
7620-200	200 litre barrel
7620-1000	1 000 litre IBC

HS Code: 3209 9000, no DG

7622 Eco-StoneTopographical Hydrophobic Protection
8637 High performance protection for Monuments

Water based protection for stone and concrete

KEY FEATURES

Art. No.	Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing Time
7622	+5 to +30°C	10 - 20 m², depending on the absorbency of the stone	1 - 2 years	1 year	Max. 20°C	48 hours (fully cured)
8637	+5 to +30°C	10 - 20 m², depending on the absorbency of the stone	Up to 10 years	1 year	Max. 20°C	48 hours (fully cured)

High-performance topographical coatings for stone and high-quality concrete products, such as wet room walls, monuments, concrete seating in public areas, stone foyer areas etc.. Reduces the effects of general surface contamination from water, food stuffs and oils. These coatings are undetectable and in most instances don't enrich the colour of the stone. These coatings are designed specifically for use on stone and are more durable than the 695 Universal coating.

PROPERTIES

Both coatings are created from the same core technology. The 8637 provides excellent hydrophobicity, oleophobicity, and associated stain protection. The 7622 coating is recommended where hydrophobic protection is required. It is not recommended for areas which are subjected to heavy contamination from oil, food product residues or graffiti. Both coatings are highly durable and withstand weathering.

- Water based high-performance agent
- Long term protection due to chemical surface bonding
- Anti-adhesion properties
- Highly oil-, water- and dirt-repellent
- Alkali-resistant up to approximately pH value 10-11*
- Reduces lime efflorescence
- Protection against re-soiling, algae and moss
- Allows vapour diffusion
- Fast curing resulting in a tack-free surface
- Highly UV-resistant
- Slightly acidic adjusted (pH-value approx. 4, the max. acidic pH-value for contact substances is about *3-4)
- Applicable by brush, foam roller, micro-fibre cloth or spray application
- Spraying with the CCM Low Energy Spray System or an airless spray (at< 4 bar) is possible
- Density: Approx. 1,0 g/cm³
- Odour: Low odour
- pH-value: approx. 5
- Ready to use liquid which creates an undetectable layer (The coating is normally undetectable but on certain stones e.g. black slate "colour enrichment" can occur. Colour enrichment is often a desirable outcome but not all end users seek colour enrichment. The 8637 variant provides greater colour enrichment.)

* Please note that the max. pH-values of contact substances may vary depending to the stability, cleanliness and the inherent pH values of the substrate.

CHARACTERISTICS

Besides these product features both coatings differentiate as follow:

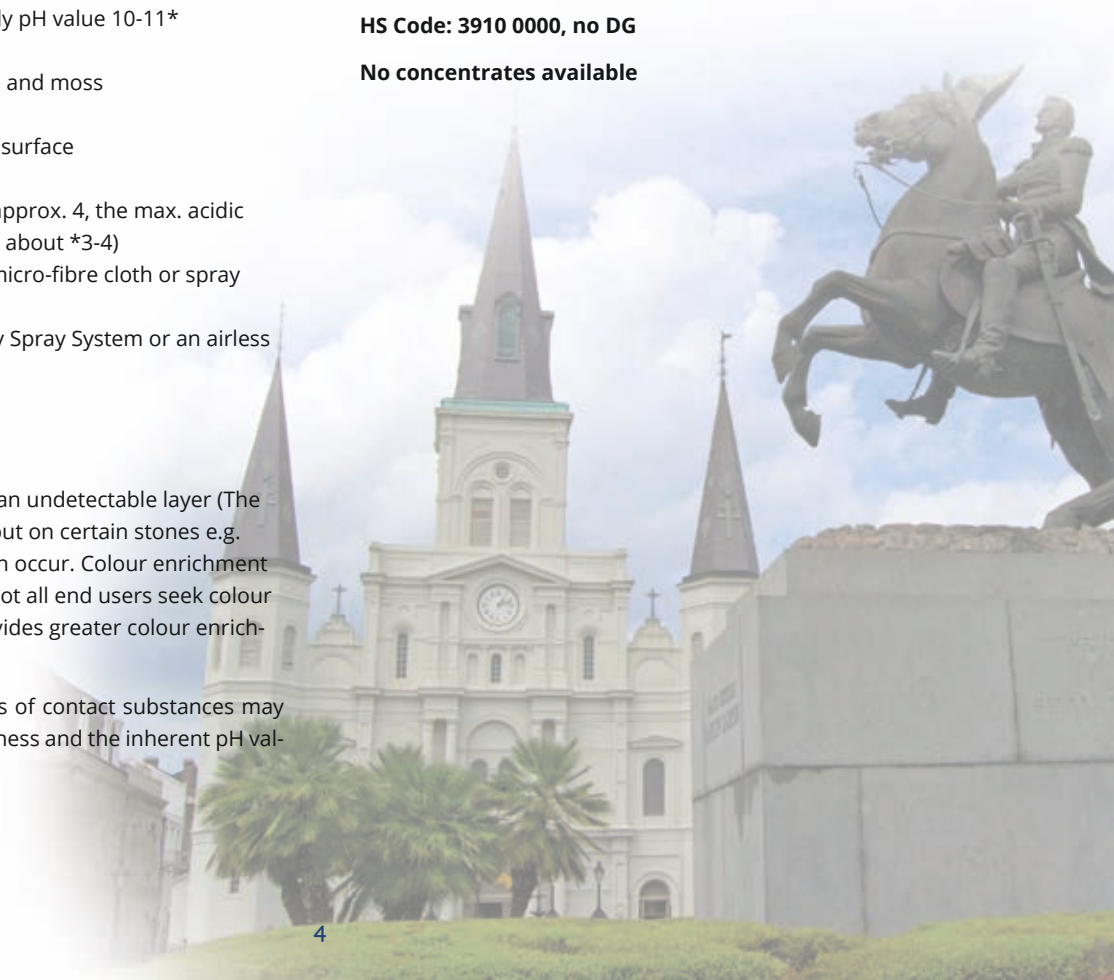
Quality	7622	8637
Easier Removal of Graffiti	✔	✔ ✔ ✔
High Density Protective Layer	✔	✔ ✔ ✔
Durability of the Coating	1 - 2 years	Up to 10 years
Coating Walls of Buildings + Statues	✔	✔ ✔ ✔

PACKAGING & SHIPPING

Art. No.	Art. No.	Bottle / Canister
7622-1	*8637-1*	1 000 ml bottle
7622-200	*8637-200*	200 litre barrel
7622-1000	*8637-1000*	1 000 litre IBC container

HS Code: 3910 0000, no DG

No concentrates available



704 Multi Stone - Stone / Concrete / Mineral Surfaces Coating

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature
+5 to +40°C	20 - 100 m²	5 years +	12 months	+5 to +25°C

The 704 Multi Stone is a highly versatile, easy to apply, heat resistant, SiO^2 based coating which offers massive durability linked with strong graffiti and stain resistance. It can be applied to all stone surfaces either in full strength or in diluted format, in 1, 2 or 3 coats by roller, brush or spray, depending on the level of protection required. The level of gloss will depend on the nature of the substrate and the level of dilution. 704 Multi Stone protects the substrate completely against moisture ingress.

PROPERTIES

- Topographical coating
- Super durable
- Solvent based
- Easy-to-clean effect
- industrial coating against Lemon Juice, Red Wine and Hot Engine Oil
- 100% solid clear coat foumulation
- Highly resistant to staining from oil, wine, lemon juice
- Micron scale coating
- Can be supplied as a coloured variant (every colour) from MOQ 1 000 litres
- Ready-to-use liquid, no concentrate available
- Can be layered
- The penetration of water, soot, coffee, cola, ketchup, red wine etc. is reduced
- The penetration of grill fat, fuel and waste oil and dry soil into The surface and can be very easily removed
- The curing process is at room temperature and it leads to touch dry surface in a few minutes
- Not soluble in water
- Can be applied by spray, brush, roller and dip or flow (not a „wipe on buff off"-coating)
- Resistant to heat and is non-flammable when cured. On stone is still active after 1000°C.
- Pre-warming the surface prior to coating enhances bonding
- Curing time: Dust dry after a few minutes and stackable, fully bonded after 24 hours
- Withstands 1 million wiping actions with a micro-fibre tissue
- Non-diluted coating offers maximum performance
- Layer thickness: Approx. 10 to 100 µm depending on dilution
- Inorganic
- Dilutable with a) Ethanol, b) PMA, c) IPA

STONES / CONCRETE

- Bonds exceptionally well to rough stones and concrete for optimal bonding a relatively rough surface texture is required. (Not suitable for polished surfaces). Abrade polished stones with a 60 to 80 grit abrasive prior to application (the coating will self level to create a smooth surface)
- Slightly breathable. Great performance against oil, water and domestic cleaning agents. Protects against red wine and lemon juice on marble when coated with a full layer. If a diluted layer is applied a slight blemish can occur from red wine after some hours
- Provides a glossy appearance, but wiping with a microfibre just after application, or wiping with a very fine abrasive after curing can creates a matt appearance.
- Excellent resistance to staining on all surfaces. Anti-graffiti. On highly porous surfaces eg. non polished cement the first, non diluted, coat will create a enriched appearance but not a shiny appearance. A second coat will create a shiny appearance. Second coats should be applied before the previous coat has dried, normally in a period 20-30 minutes after application of the previous coat. The coating can be applied as a diluted or primer coating (approximately 50% IPA) if the target is only hydrophobicity on walls etc.. In all instances the 704 coating enriches the appearance of the stone.

PACKAGING & SHIPPING

Art. No.	Bottle / Canister
704-1	1 000 ml
704-5	5 000 ml
704-200	200 litre barrel
704-1000	1 000 litre IBC

HS Code 3208 9019, DG

7641 Q² Marble PRO Marble Protection System

KEY FEATURES

Application Temperature	Coverage Rate per Litre	Durability of the Coating	Shelf Life of the Liquid	Storage Temperature	Curing time
+15 to +25°C	50 - 80 m²	Up to 10 years	24 months, 6-12 months after opening	+5 to +25°C	7 days at room temperature

7641 Q² Marble PRO is ideal for use on any marble surface. The coated surface becomes glossy and very easy to clean. Coated marble with 706 Q² Marble PRO will resist staining from wine and lemon juice for over 12 hours.

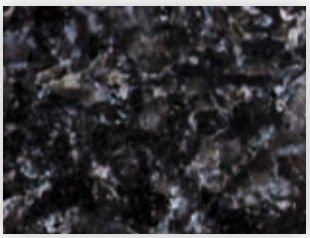
PROPERTIES

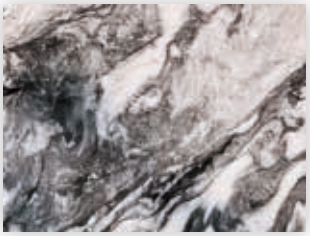
- Excellent shine and durability
- Long-lasting “easy-to-clean” characteristics
- Enriches the colours of the target marble/ stone surface
- Anti-stain characteristics
- Suitable for interior and exterior application
- Good UV stability and protection.
- Extremely resistant to mechanical and environmental degradation.
- Resistant against domestic grade acid and alkaline degradation, as well as organic solvents.
- Heat tolerant, ambient temperature 350°C, point temperature 220°C
- Layer thickness: Approx. 20-25 microns
- Two component coating

PACKAGING & SHIPPING

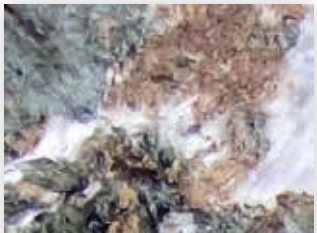
Art. No.	Bottle / Canister
7641-50	50 g
7641-100	100 g
7641-1000	1 000 g
7641-5000	5 000 g

HS Code: 3208 9091, DG










APPLICATION

CONDITIONS

- Working temperature (surrounding and surface) must be above 5°C
- Best results are obtained in a range between 15°C and 25°C
- No application in direct sunlight
- The surface must be clean, dry, grease-free and free from silicones, wax- or polish residues
- In most instances application will be conducted after the abrasion of the target surface. Ensure that all dust particles have been removed from the surface and local areas prior to spray application.

COMPATIBILITY

- Corroded areas e.g. tap bases or metal lighting or inlays within the marble, must be thoroughly cleaned and all corrosion removed before coating.

PREPARATION

- Use undiluted
- Follow the mixing ratio instruction very precisely
- Add the hardener to the base liquid, shake or stir the solution and wait approximately 10 minutes
- Before working. Allow any “stirring bubbles” to dissipate before application
- Close the container of the hardener immediately. The hardener is very sensitive to humidity
- Maximum pot life after initial mixing is 4 hours.

APPLICATION

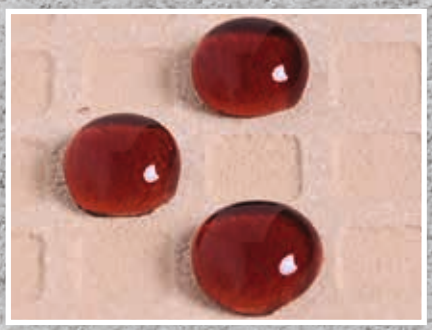
- Use the CCM Low Pressure Spray System for spray application. Spray application provides the highest quality finish.
- Roller application is possible but not recommended for surfaces which have to attain the high-quality appearance of kitchen and bathroom surfaces.
- If rollers are used it is recommended that a high-quality small pore roller for gloss paint and varnishes is used. Ovoid over application as this may create “roller- lines”. The target layer should be 25 microns.
- It is important to note that there is a degree of self-levelling after application.
- Light abrasion with a suitable abrasive (2000 grade) will create a matt surface.
- Re application / top up coating is straight forward.

	695	7620	7622	8637	704	7641	7626
Application	spray, brush, roller	spray, brush, roller	spray, brush, roller	spray, brush, roller	spray, brush, roller	spray, brush, roller	brush, roller, convention or airless spray
Application Temperature	<5°C - 50°C	<-10°C - 70°C	<5°C - 30°C	<5°C - 30°C	<5°C - 40°C	<15°C - 25°C	<-5°C - +60°C
m² per liter	5 - 40	8 - 50	10 - 20	10 - 20	20 - 100	50 - 80	8 - 10
Durability	up to 2 years	10 - 20 years	up to three years	up to 10 years	5 years +	up to 10 years	up to 20 years
Curing Time	12 hours	3-6 hours at 20°C	12 hours	12 hours	24 hours	7 days at room temperature	touch dry 3-4 hours, full cure 24 hours
... based	water	solvent	water	water	solvent	solvent	solvent
Available as concentrate	yes, 1:9-1:14 (art. no. 697)	no	no	no	dilutable up to 1:1 with Ethanol or 1-Meth-oxy-2-Propanol	no	no
Breathable	yes	yes	yes	yes	no	no	yes
Visible	No on most surfaces	might be slightly darker	no on most surfaces	no on most surfaces	yes, glossy	yes, glossy	yes, clearly (glossy
Topographical / penetrative	Topographical	penetrative, extreme abrasion-resistant	topographical	topographical	topographical	topographical	topographical, very strong bonding
Oil resistant?	yes	yes	no	yes	yes	yes	yes
Frost resistant?	yes	yes	yes	yes	yes	yes	yes
Available in RAL colors?	no	no	no	no	yes, from 1.000 liter	no	Yes, from 100 liter
Dangerous goods?	no	no	no	no	yes	no	no
Application recommendation	concrete, plaster, natural stone (granite, slate, basalt, sandstone)	concrete, tiles (unglazed), roofing tiles, brick/ masonry, limestone, sandstone, mineral plaster, natural stone, façade, slate	wet room walls, concrete seating in public areas, stone foyer areas	for monuments, Statues, high value stone art works, pav-ing-stone systems and terrace tiles	concrete, plaster, natural stone (granite, slate, basalt, sandstone, limestone), roof tiles, clinker	concrete, plaster, natural stone (granite, slate, basalt, sandstone)	Graffiti Protection for at least 20 times, for commercial locations, for aluminium siding, (fibre) glass, masonry, metal, street signs, stucco, utility boxes, vinyl siding, wood










CCM®

Multi-QR-Code zu
allen CCM-Kanälen

Quantum Quartz

ULTRA-COATING SOLUTION

Camper Vans & Boats

CCM produces a unique range of „Liquid Glass“ coatings for almost all interior and exterior surfaces. These coatings are designed for application to Camper Vans and Boats. Various levels of quality are offered, ranging from high performance easy-to-apply, „wipe-and-go“ coatings (super simple and quick to apply) to extremely durable industrial coatings for professional use.

Q² Quantum Quartz is not just a brand, but an accurate description of the composition of our technology. The coatings are predominantly based on SiO² (quartz) and are measured at the quantum level. The Q² Quantum Quartz protective coatings have a thickness ranging from 100nm+/- (approx. 500 x thinner than a human hair) up to, approx. 10µ/micrometer (our premium coating, 97640).

Overview – from nano scale to micron scale:

97660 Q² „Polish 2 in 1“

This coating is loved by boat detailers. It provides an amazingly “low friction” layer. It is very easy to apply, simply wipe on and buff (e. g. by using a polishing machine). It can be used for internal and external surfaces and it provides a super smooth, easy to clean, hydrophobic surface. It is not designed to be a highly durable coating but it will still last for at least 6 months on the exterior surface of a motor home.

98654 Q² Quick Gloss (water-based)

This coating is an exceptionally easy to apply yet durable and long lasting coating. It is designed to provide a quick and easy hydrophobic coating. Simply spray the coating on to the target surface, usually external paintwork, plastic seating, (boats) stainless steel fittings etc.. After spraying on the water based liquid, simply wipe the surface and lightly buff if required. It takes seconds to apply and will last up to 6 months. Very easy to re-apply.

97656 Q² Plastic-Metal Premium

This is a highly durable DIY liquid glass coating. It requires greater care when preparing for application. In order to gain maximum performance from this coating, it is important that all target surfaces must be perfectly clean and dry. The coating is applied in seconds. Simply wipe this liquid glass on to the surface and then buff some minutes later. It will withstand many tens of thousands of wiping actions. It is suitable for stainless steel, plastic and painted surfaces, eg. headlights, body work, instrument panels, bridge windows, air-craft windows, motor cycle visors, cockpit areas, oven tops. It is heat resistant to 250°C.

90643 Q² Easy On

This coating is like a “supercharged 97656”. It is applied in the same way, by wiping, but it is a significantly more durable coating as at 900+/- nano meters it is approximately 9 times thicker than 97656. It can be applied to metal, plastic, glass and painted surfaces. It provides a super durable, non-staining hydrophobic coating which will last for several years on the bodywork of a car, boat hull or aircraft. The coating, which provides a super glossy surface is also highly resistant to solvents, acids and alkalis. It is also massively heat tolerant. This coating can be used on almost all non-porous surfaces and it is fast and easy to apply.

97640 Q² Profi Protect – Our Premium-Quality

This coating is a military grade coating. It is massively durable but with great durability comes great responsibility. This is a „professional“ coating. It has enormous bonding energy and has to be applied correctly. It can be applied by spraying or wiping depending on the need of the customer. When applied the coating provides an ultra-durable, glossy, stain resistant, graffiti resistant, heat tolerant, anti-corrosive, UV stable, hydrophobic coating. The coating will last for many years.

Comparison of our Premium Coatings for car painting and rims from nano scale to micron scale:

	97660	98654	97656	90643	97640
Application	Very easy, simply wipe on and buff off	Very easy, simply wipe on and buff lightly	DIY - clean, apply with care and buff after curing	For skilled application	For professional application
Application Temperature	-25°C to +80°C, suitable for application in direct sunlight	0°C to +45°C	+5°C to +30°C	-5°C to +40°C	+5°C to +35°C
Durability	3 to 6 months	6 to 12 months	12 to 24 months	Up to 36 months	Up to 72 months
Curing Time	12 hours at 20°C (car usable after one hour)	5 minutes (car immediately usable)	12 hours at 20°C (car usable after one hour)	24 hours for water resistance, 6-7 days for abrasion resistance (car usable after 5 hours)	7 days at room temperature (car usable after 5 hours)
Perl effect	Medium	High	High	High	High
Gloss effect	High	High	High	High	High
Scratch resistance	✔	✔	✔	✔✔✔	✔✔✔✔
Per Mid-range Car	Approx. 100ml	Approx. 100ml	Approx. 50ml	Approx. 50ml	Approx. 50ml
Consistence	Emulsion, solvent free (no waxes or solvent silicones)	Liquid, water-based	Liquid, alcohol-based	Liquid, multi solvent-based	Liquid, multi solvent-based
Resistant to Frost	Yes	Yes	Yes	Yes	Yes
UV resistant	Yes	Yes	Yes	Yes	Yes

Further recommended products:

7601 Q² Windscreen Coating

This coating offers exceptional performance. It is quick and easy to apply and makes driving in rain significantly safer.
Once you have driven with this coating on your windscreen you will never wish to drive without it. Please refer to our online videos.

7689 Q² Textile Coating (water-based)

This water based coating can be applied to almost all fabrics. Simply spray the coating on to the fabric and allow it to dry. After curing the fabric becomes massively resistant to abrasion and staining.

683 Q² Rapido Leather & Fabric Protection (alcohol-based)

This is a rapid curing coating for leather and fabric. It also bonds to painted leathers, it offers deep penetration, excellent olephobicity & hydrophobicity and long term protection.

A World Class Coating:
97640 Q² Quantum Quartz 9H

This highly advanced coating has been specially developed for the demanding requirements of the marine, auto, aviation, military and transport sectors. It is extremely resistant to corrosion, abrasion, and temperatures, and can be applied to metal, plastic, powder-coated, and painted surfaces. Curing can occur at ambient temperature but the additional application of heat is also advantageous. The coating forms an extremely strong bond with the surface, and creates an abrasion-resistant finish with very high resistance to solvents.

The thin and transparent coating possesses extreme stability, and a degree of hardness up to 9H can be achieved. Suitable for all kinds of caravans, boats, vehicles (including vintage cars), and motorcycles.

What is a Q² Quantum Quartz 9H coating?

Our Camper Van, Boat & Car **Q² Quantum Quartz** 9H Coating is a glass coating based on silanes. The coating can be applied as either a thick layer of approximately 10 microns on to surfaces which are not highly reflective or the coating can be applied and then buffed thus reducing the coating thickness to approximately 2 microns. This latter procedure is normally used in the caravan/auto sector. The coating is neither paint, wax nor a sealant, and cannot flake off or be washed off. The coating forms a durable ("covalent") bond with the paint, and it can only be removed by strong abrasive forces. The coating cannot be dissolved by standard chemicals which are commonly used in the auto sector. The coating provides a highly glossy appearance but like all surfaces abrasion will eventually impact on the coating. The useful life of the coating will depend on the amount of abrasion that the surface is subjected to.

What is 9H?

We use the familiar "pencil hardness" to describe the hardness of a layer. The measuring range is between 6B (smoothest) and 9H (hardest). The Auto and Aerospace **Q² Quantum Quartz 9H Coating** achieves a hardness grade of *8H (drying at indoor temperature) up to 9H (heat drying).

**The hardness of a coating is measured when the coating is applied to a metal test bed. If the coating is applied to a soft painted surface the hardness of the coating will remain constant but the underlying soft painted surface and the coating can be distorted if point loading pressure is applied.*

Properties

- Clear, colourless liquid based on silanes.Contains solvents.
- Extremely abrasion-resistant, with very high adhesive properties, and high impact strength
- Hydrophobic, oleophobic and stain-resistant
- Suitable for spray or manual application.
- After polishing the surface will become "ultra shiny"
- "Easy-to-clean" effect - surfaces stay cleaner for longer, and all cleaning becomes very easy, thus extending the cleaning intervals and reducing cleaning and maintenance costs.
- Highly effective for up to 10 years
- Application with electric polishing machine possible
- Material consumption for an entire car, approx. 50ml

Temperature resistance

The coating is heat-resistant up to 750°C, and cold-resistant up to -90°C.

Oxidation and corrosion resistance

Bare metal will oxidize over time, as will painted surfaces. The Auto and Aerospace **Q² Quantum Quartz 9H Coating** is very dense and it protects paint and metal against contact with water and oxygen, and is therefore a highly effective corrosion resistant layer.

High resistant against chemicals

The coating is 100% resistant against chemicals/solvents, to which vehicles are generally exposed.

The Camper Van, Boat & Car 9H Coating can also be applied to:

Rims, head lights, windowpanes, door handles. Also suitable for a wide range of other materials... non-ferrous metals, galvanized (zinc-coated) metals/steel, painted and powder-coated surfaces, anodized aluminium, and plastics.

50 ml	**Art. Nr. 97640-50**
100 ml	**Art. Nr. 97640-100**
1.000 ml	**Art. Nr. 97640-1**

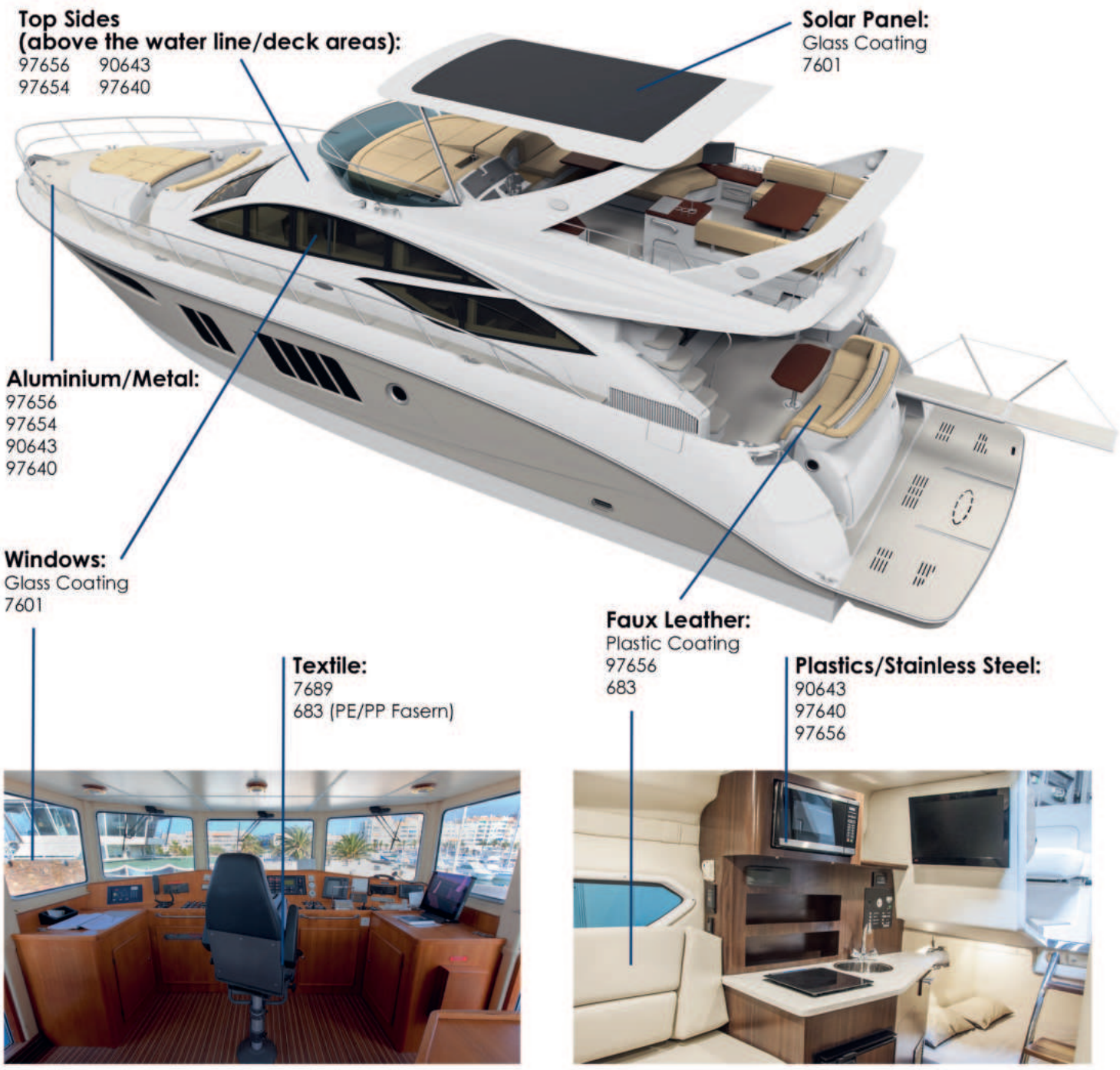
Paintwork:
97660 90643
98654 97640
97656

Windows:
7601

Plastics / Stainless Steel:
97656

Textile:
7689
683

CCM Liquid Glass Coatings for Motor and Sail boats



Liquid Glass Coatings

Hotels. Restaurants. Pubs.

CCM GmbH, headquartered in Overath near Cologne, Germany is one of the world's leading developers of liquid glass coatings and markets its products in over 80 countries. High-tech made in Germany. Detailed information can be found on our homepage.

For the hotel sector products are offered for almost all areas, e.g. glass/ceramics, stainless steel, marble, stone, wood, fabrics, leather and much more.

Liquid Glass Coatings for hotels, restaurants and pubs

ACTUAL situation:

- A fast and efficient cleaning process is always a big challenge
- Estimated cleaning times allow little leeway for more complex cleaning
- Guests have high expectations regarding cleanliness
- First impressions significantly influences the perceptions of the client.

Advantages after coating surfaces with liquid glass:

- Cleaning times can be significantly reduced
- Service life of the coated surfaces is considerably increased
- Use of cleaning chemicals is significantly reduced (= cost savings)
- On many surfaces pure water is sufficient for cleaning or our Biosativa® bio-cleaner
- Strong water repellency .
- Inhibits bacterial growth
- Resistance to acids, bases and solvents
- Surfaces remain flexible and breathable (e.g. fabrics)
- The sealing is heat- and cold-resistant (depending on the product up to -90°C and +600°C)
- Very high durability of the sealant (up to 10 years depending on the product)

Result: Guests will find a well-kept room (and a clean hotel complex).

Applications.

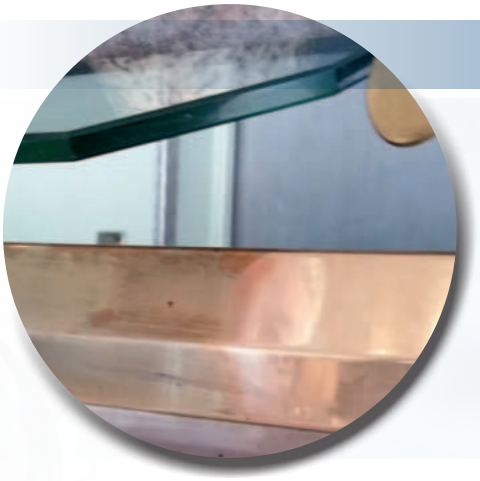
Our authorised service partners can protect almost all surfaces with liquid glass technology.

Products for hotels, restaurants and pubs:

(Pre-) cleaner:

Biosativa® bio cleaner concentrate

- Made in Germany
- Ecological cleaning concentrate, made from naturally renewable raw materials
- Completely biodegradable, contains no bleach, preservatives or chemicals
- Water-soluble
- Tremendous cleaning power
- Neutral, does not affect colours, plastics or other materials
- Without fragrance (because fragrance additive is not degradable)
- Winner of the “Green Apple Award” (A prestigious International Environmental award)



Stainless steel cleaner BLU 1000

- For deeply stained, stainless steel, brass copper and plastic surfaces, (can also be used on glass)
- Produces a good optical, even high-gloss surface
- For indoor and outdoor use
- For metallic, organic and inorganic surfaces
- Applicable for lifts, doors, containers, stairs, handrails, railings, swimming pools, steel façades, furniture, breweries and more.

Coating:

Glass Coating

- Foyer
- Windows and glass doors
- Shower cubicles
- Winter gardens
- Porch roofs
- Glass tables
- Photovoltaic systems
- and much more

Ceramic Coating

- Bathroom (glazed surfaces such as washbasin, WC, shower, bathtub and toilet)
- Glazed tiles

Fabric Coating

- Chairs
- Sofas
- Mattresses
- Rugs
- Curtains
- and much more

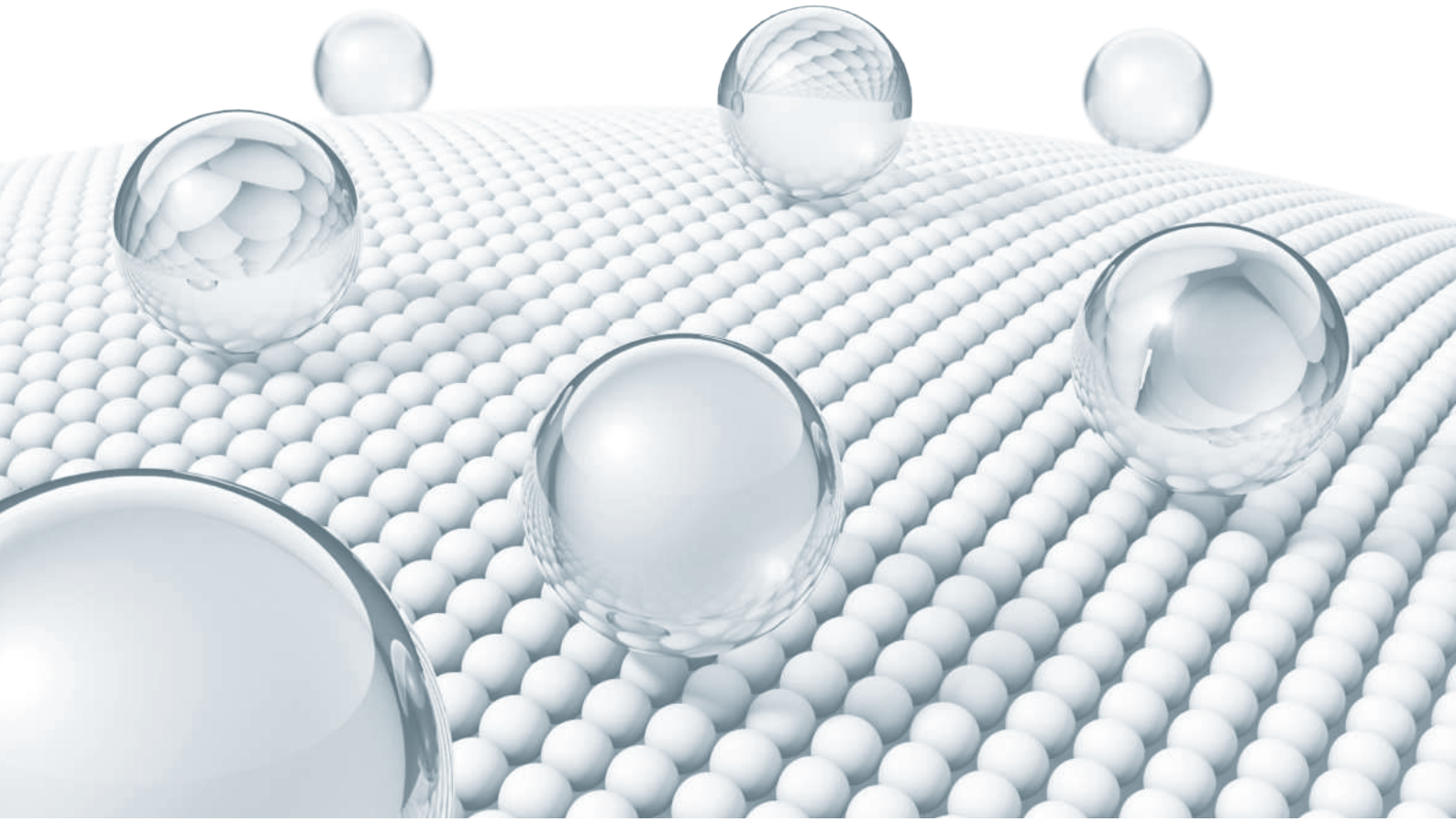
Leather Coating

- Chairs
- Sofas
- and much more

Stainless Steel Coating

- Lifts (doors and panelling)
- Buffet area
- Ashtrays
- Railings/handrails
- Receptacles
- Steel façades
- Brewery plants
- Kitchen areas
- and much more

HB SiO2 Coating Technology
Fluorine Free
Liquid Glass Coatings



The Situation

In the early 2000s it became apparent that there was an "issue" with Perfluorooctanoic acid, also known as PFOA or C-8 or any number of branded coatings. This technology is present in nearly every home in the "modern world". Used to create everything from non-stick pans, to contact lenses, C-8 is everywhere and it is exceptionally effective. However…

The issue with this technology was that it was proven that items coated with PFOA technology degraded over time and the particulates within these coatings found their way into all aspects of our home, working environments and also into the organs within our bodies. So far so bad, but what is worse is that these agents are known as Forever Chemicals as, in essence, they persist for 10s of thousands of years.

Despite this knowledge C-8 based coatings are still being used and supplied by thousands of organizations.

CCM HAVE NEVER USED C-8 TECHNOLOGY WITHIN ANY COATINGS.

Why do we use C-6 within our coatings?

Having been aware of the problems associated with C-8 agents, CCM chose a better route. In order to establish stain proofing CCM chose to follow prevailing guidance and to use C-6 technology within the coatings. We use **exceptionally small amounts** of C-6 agents within our coatings in order to establish stain proofing. The amounts are measured in a few PPM (parts per million).

We have used C-6 because *"These compounds do not appear to possess the biopersistence and potent systemic and reproductive toxicity that are characteristic of C-8-PFCs as a class. Instead, data from animal and epidemiological studies indicate that C6-PFCs are rapidly and completely excreted and do not appear to accumulate in biological fluids.*

(Rice. P.A Curr Envir Health Rpt (2015) 2:3 https:doi.org/10.1007/s 40572-014-0039-3)

CCM's way into the future

Having noted that CCM has never used PFOA technology it is clear that there is a possibility that all agents within the "fluorinated coatings sector" may be considered as potentially harmful and so we have created a new range of F-Zero compliant coatings. These coatings are completely free of any fluorinated agents.

Our water based "HB SiO2 coatings" offer our partners worldwide the opportunity to satisfy the demand for F-Zero coatings.

EU considers ban on, "forever chemicals", urges a search for alternatives

By Ludwig Burger

February 7, 2023, 5:56 PM (Reuters)

The European Union on Tuesday started to consider a proposal to ban widely used, potentially harmful substances known as PFAS or „forever chemicals" in what could become the bloc's most extensive piece of regulation of the chemical industry. The chemicals have been used in tens of thousands of products, including cars, textiles, medical gear, wind mills and non-stick pans due to their long-term resistance to extreme temperatures and corrosion…....Ban could take effect in 2026 or 2027.

CCM is prepared for the future.

Introducing CCM's "HB SiO2 coating technology"

(HB = hyperbranched silicon dioxide)

This stunning technology is completely fluorine free yet provides outstanding hydrophobicity.

The range is suitable for use in all areas but specifically, it is designed for use within the DIY/Retail and Commercial sectors where ease of application in a wide range of environments is essential.

The coatings perform in a very similar way to our world renowned Liquid Glass coatings in that they create a protective hydrophobic layer which is exceptionally easy to clean.

Key attributes

- Free from any form of fluorinated agents.
  This is essential for use in certain countries.
- Free from Solvents
  Alcohol can be added if required for certain applications eg. leather coating.
- Ease of application
  Easy to apply and very easy to buff when applied to auto surfaces and glass
- Excellent easy-to-clean effect.
  Shower screens, oven fronts and fridge exteriors are cleaned in seconds.
- Good durability.
  The coatings will last for approximately 1 year in areas of low abrasion.
- Biostatic effect.
  Reduces proliferation of bacteria.
- The additives used in order to create HB substrate specific coatings are often commonly used as additives to food or are used in standard domestic cleaning products.

Specifications

Application	simply wipe on, spray on, roller on or submerge
Consumption	glass approx. 5ml per m², carpet approx. 200ml per m²
Layer thickness	200nm +/- (nano meter)
Temperature stability	150°C permanent
Water repellency	contact angle between 145° and 110°
Oil repellency	not resistant to oil
Chemical/acid/alkaline resistance	between ph 1 and ph 14
Abrasion resistance (mechanical)	high
Weather/UV resistance	1000h (ISO11507 A)

HB Coatings – Product Range

HB SiO2 is supplied as a concentrate. Our F-zero range uses the same base concentrate. This concentrate is adjusted to match the target usage.

Glass painted surfaces, plastic and stainless steel

On surfaces such as windows, or car paintwork, simply wipe on and allow the coating to dry for some minutes and then gently buff the surface with a clean soft cloth or microfibe. The coating is functional within minutes but it takes some hours for the coating to become fully cured and optimally functional. The drying time will vary depending on the prevailing climate but on average buffing can be conducted after 10 minutes at 20°C. (These coatings are ideal for application in warmer climates where alcohol based coatings dry very rapidly.)

Concentrate

Content	Art. No.
1 liter	7680-1
5 liter	7680-5
20 liter	7680-20

Mixing Instruction:

10-20% HB SiO2 Concentrate
59.9-69.9% demin. water
0.1% glycoic acid
20% isopropanol

Fabrics

The HB coating is available in 2 variants these being Spray-On and Wash-In. The wash-in variant is a more concentrated variant which is designed for application to multiple garments or for application to sports jackets etc. by submersion.

Concentrate

Content	Art. No.
1 liter	7686-1
5 liter	7686-5
20 liter	7686-20

Mixing Instruction:

10% HB SiO2 Concentrate
88% demin. water
2% acetic, phosphoric, formic or glycolic acid

Wash-in

Concentrate

Content	Art. No.
1 liter	8683-1
5 liter	8683-5
20 liter	8683-20

Mixing Instruction:

20% HB SiO2 Concentrate
78% demin. water
2% acetic, phosphoric, formic or glycolic acid

Wood

Concentrate

Content	Art. No.
1 liter	698-20
5 liter	698-120
20 liter	698-IBC

Mixing Instruction:

10% HB SiO2 Concentrate
77% demin. water
0,5% acetic, phosphoric, formic or glycolic acid
12.5% butyl glycol or ethanol

Stone and mineral surfaces

Concentrate

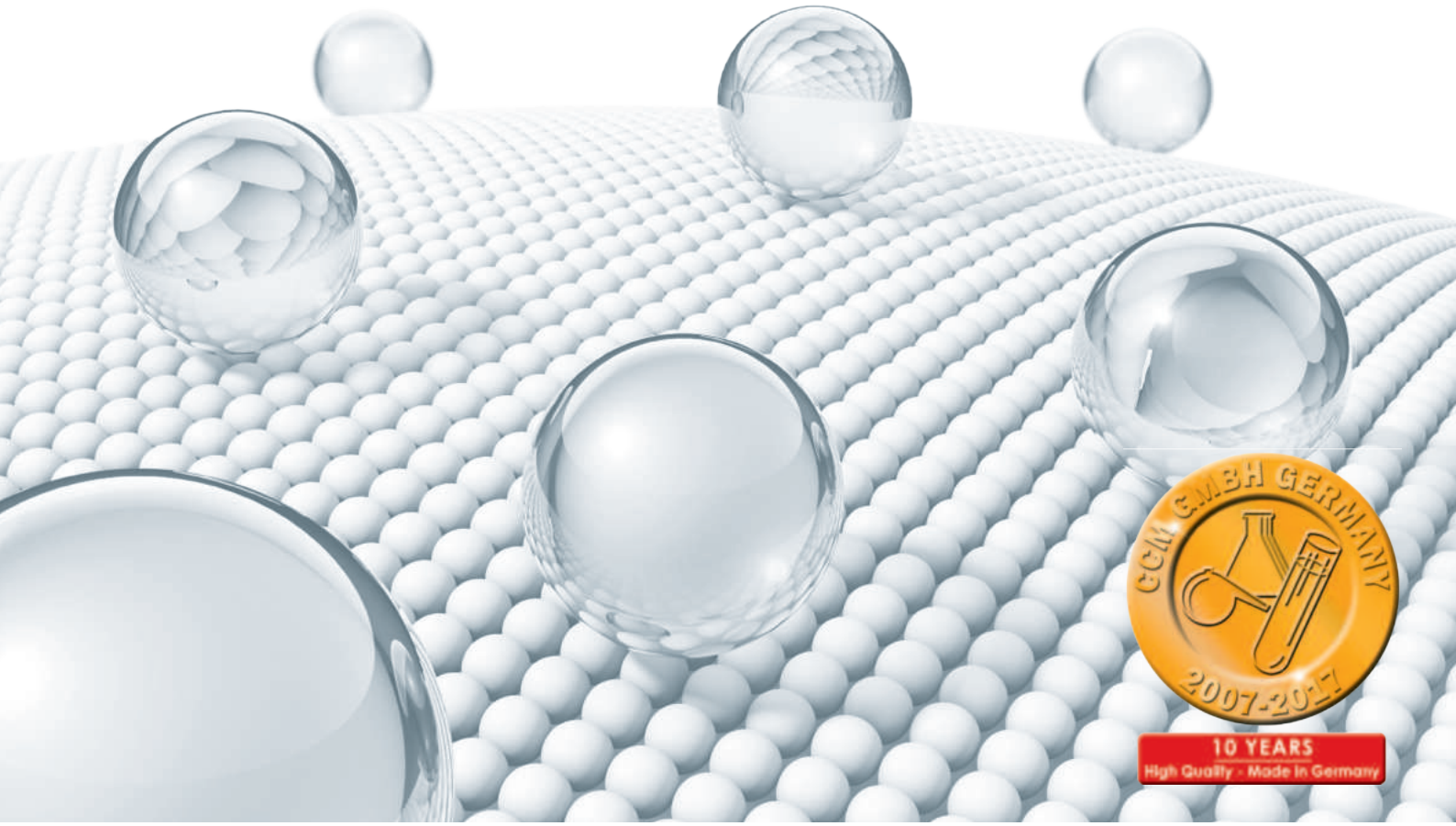
Content	Art. No.
20 liter	7628-20
120 liter barrel	7628-120
1.000 liter IBC	7628-IBC

Mixing Instruction:

10% HB SiO2 Concentrate
89,5% demin. water
0,5% acetic, phosphoric, formic or glycolic acid

HOT STUFF®

Hybrid Nano Silica Fusion Technology (HNSFT) with self-healing characteristics



Hybrid Nano Silica Fusion Technology (HNSFT) with self-healing characteristics

The Fabric Industry has been searching for a coating which offers the same performance as C8 (PFOA) technology, yet without the obvious negative attributes. It became apparent that a technology based on SiO^2 could prove to offer the solution, and this has indeed proven to be the case.

The new Hybrid coating, which also utilises an environmentally optimised, slightly cationic, C6-carbonfluoropolymer, is PFOA-free, stunningly Hydrophobic and Oleophobic, Self Healing and most importantly Machine Washable.

Fabrics coated with HNSFT technology after 15 wash cycles.

We are offering Outstanding Performance

CCM HNSFT technology provides an oleophobicity rating of up to 8 (ISO 14419)

This chart shows the performance of standard commercially applied fabric coatings. The maximum oleophobic rating after 10 washes is only 5.

DWR Chemistry	Water repellent PA after 10 washes	Water repellent PET after 10 washes	Oil repellent PA after 10 washes	Oil repellent PET after 10 washes
Fluoro C8 (telomer) (FC)	5	5	3,5	3,5
Fluoro C6 (telomer) (FC)	4	4,5	4,5	2,5
Fluoro C4 (EFC) (FC)	5	4	0	0

Note the significant drop in performance after washing. Due to the highly durable SiO^2 component the performance levels of HNSFT coated fabric remains high, even after repeated washes.

We offer a technology which surpasses the performance of C8.

CCM Hybrid Nano Silica Fusion Technology (HNSFT) with self-healing characteristics.

Our experience of working with SiO^2 based coatings informed us that this technology offered us the best foundation from which to create a new coating.The main obstacle to overcome was “enhancing the bonding characteristics of the coating”. This obstacle was overcome by creating a hybrid matrix, which, when heat cured would provide a coating which would not only match but supersede the performance characteristics of standard C8 fabric coating technology.

Attributes:

- PFOS and PFOA free
- F-C Modified silica. The fluorinated component is very strongly bonded to the SiO^2.
- Bonded structure massively reduces degradation of the coating.
- outstanding oleophobicity/oil repellency (depending upon fabric type, e. g. 8 on PES), based on ISO 14419

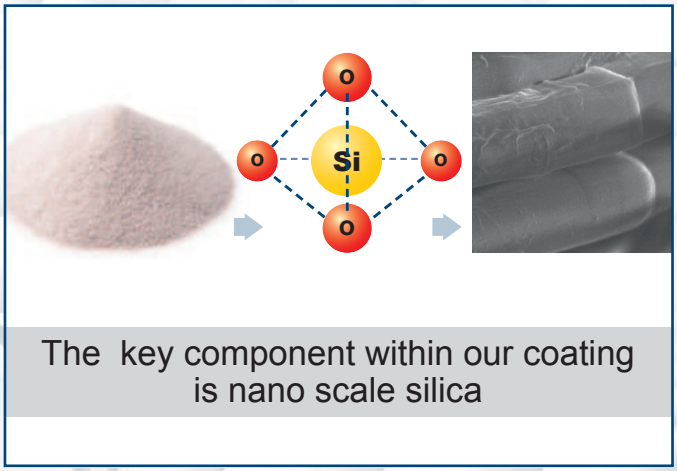
Technical Data:

- Washing stability 25-100 washing cycles
- (AATCC) Test Method 135, ECE formulation washing powder, non-phosphate reference
- Oil repellency: ISO 14419 / 8-6 (depending on the substrate)
- self-healing prompted by tumble drying
- Water repellency: AATCC 22 / 100, ISO 4920 / 5
- Temperature stability: 220°C
- Transparency: 100%
- outstanding UV-stability > 3.500 hours

Oil Repellency on fabrics (ISO 14419)

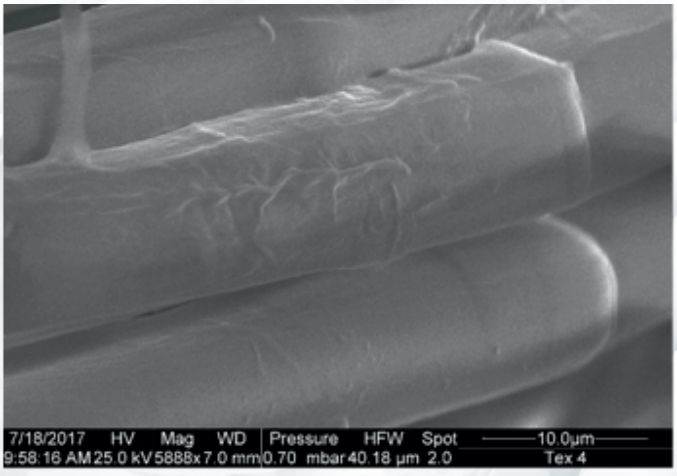
Type of textile	Results
Polyamid ISO 105-F03	oil 6 / 7 / (8 B)
Polyester ISO 105-F04	oil 6 / 7
Wool ISO 105-F01	oil 6 (-) / 5
Cotton ISO 105-F09	oil 6 / 7
Multifiber ISO 105-F10	oil 6 / 7 / 8

From Quartz Sand to a revolutionary Liquid Glass Technology Coating



The key component within our coating is nano scale silica

REM Analysis



coating thickness between 300-900nm

Industrial Application:

The constituents are supplied in four different concentrates. For creating 1.000 liters the amounts are:

Component 1 - 10 liters
Component 2 - 30 liters
Component 3 - 10 liters
Component 4 - 8 liters

Simply mix the constituents into water to create the HNSFT coating.

Pre-drying at 100°C is recommended as the fabric must be dry before “curing”.

Curing: Approximately 60 to 120 seconds at 150-175°C. Curing times and heat settings can be adjusted to match fabric types and production methodology.

Foulard application is recommended.

Stability of mixed coating: 2 days

Shelf life of the components: 1 year

Target Groups for Textiles

coated with Hybrid Nano Silica Fusion Technology (HNSFT) with self-healing characteristics:

- Military
- Hospitals
- Working Safety
- Sports Wear
- Technical Textiles
- Adventure clothing
- Fashion clothing
- Upholstery
- Carpets
- Automotive

HOT STUFF®

for Commercial and DIY application.

This variant is supplied as a simple to use concentrate.

The coatings is applied to fabrics, finished garments, soft furnishings etc. by either spray, sponging or dipping. In order to cure the coating the item should be heat cured via either a tumble dryer, or hair dryer for smaller items such as sneakers or hats.

Performance characteristics

Coated fabrics offer excellent hydrophobicity and oleophobicity for up to 20 wash cycles. The durability of the coating depends on the structure of the fabric, eg. Cotton-polyester fabrics offer more prolonged performance than pure cotton fabrics.

The HOT STUFF® range is based on a „common core technology“.

It is possible to adapt this technology to meet specific needs such as enhanced resistance to Dry Cleaning. Please contact us if you have a specific requirement for fabric coatings.

Bacoban®

STOP up to 10 Days

Bacteria
Fungi
numerous viruses

Longterm-Surface Disinfection

BACOBAN VIDEO

www.ccm-international.eu

About Bacoban


CCM Headquarters
in Overath / Germany

Surface disinfection with long-term effect, which lasts for up to 10 days

Humans have been creating disinfectants for millennia and of course some are more effective than others; for example we moved from vinegar to bleach (Sodium hypochlorite) both of which have served mankind very well. Over recent years we have been using alcohol, iodine and hydrogen peroxide to disinfect surfaces but the problem with these disinfectants is that they are good at disinfecting, at the point when they are wiped over a surface, but they offer no residual benefi ts. For example, imagine the process of disinfecting a hospital room. A person starts cleaning the surfaces on the left hand side of the room, by the time that they have reached the right hand side of the room the freshly cleaned surfaces may have been re-colonised by pathogens. This is clearly a completely unsatisfactory process. The healthcare sector needed to fi nd a solution to this problem and the solution lay in creating a disinfectant which combined sterilisation with long term residual protection. The solution became **Bacoban®**.

Bacoban® is a patented surface disinfectant which uses a completely new approach. It uses a semi permanent nano scale layer of SiO^2 (better known as Liquid Glass). This layer holds within it, anti pathogen agents, which are slowly released whilst the surface is in place (up to 10 days). Not only is ***Bacoban®** effective against bacteria but it is also effective against a wide range of pathogens including Hepatitis, Infl uenza, HIV, Staphylococcus aureus, Pseudomonas aeruginosa, Candida albicans, Coronavirus. **Bacoban®** closes the hygiene gap that arises between disinfection cycles. This allows for active infec-tion control for an extended period. Moreover Bacoban® reduces odors caused by bacteria. **Bacoban®** is VAH-listed. Whilst being tested, by renow-ned institutions (following the ASTM E 2180 protocol used to establish long term efficacy) not only was the long term anti bacterial effect confi rmed but additional testing indicated that Bacoban creates „easy-to-clean" surfaces, which reduces the cleaning time of the protected surfaces by approximately 50%.
Bacoban® is biocompatible (tested under GLP conditions according to DIN EN ISO10993-1) .
Bacoban® can be applied to almost all surfaces including metals, ceramics, plastics, textiles etc..

* Bacoban is effective against a very wide range of pathogens including viruses, bacteria and fungi. It is not effective against all pathogens.

further information

www.bacoban.com

www.ccm-international.eu

Water based | Ready-to-use

Product
Ready-to-use disinfectant product providing long term efficacy. Does not contain Aldehyde or Phenol.

Uses
For the disinfection of "medical" areas in accordance with Directive 93/42/EEC (Medical Devices) and all types of surfaces in hospitals, doctors practices, rehabilitation centres and retirement homes. Especially useful in areas demanding effective and long-lasting hygiene.
Particularly suitable for areas where unpleasant odours caused by micro-organisms form, such as toilets and sanitary facilities. Bacoban WB may be used in critical and sensitive areas of the pharmaceutical and cosmetic industries.

Composition

100 g solution contains: benzalkonium chloride 0,26 g, sodium pyrithione 0,025g, polycondenstaes, perfume substances, purified water.

Flow pack
50 wet wipes | wipe size 180 x 200 mm / 50g/m²
(one wipe cleans and protects approx. 1.5m²)
Languages on pack: DE, UK, F, ES
art. no. BACDLTUE

500 ml spray bottle
art. no. BAC500DI

Microbiological effectiveness
Bacoban® DL is effective against : bacteria, fungi, viruses (hepatitis B and C, HIV, influenza including H5N1and H1N1, rotaviruses and adenoviruses, Coronavirus).

Effectiveness	
DIN EN 1040	5 min.
DIN EN 1275	5 min.
DIN EN 1276	5 min.
DIN EN 1650	5 min.
DIN EN 13697	5 min.

Tested in accordance with VAH guidelines (high organic load)

Tested in accordance with ***VAH guidelines.***

Long lasting anti-viral and anti-microbial performance. Effective for up to 10 days. Complies with ASTM E 2180 standards

UBA No: 57040031
Biocide-reg.no.: N-34071

further information

www.bacoban.com

Water based | Concentrate 1 : 100

Product
Water-based surface disinfectant concentrate containing a polycondensate, a quaternary ammonium compound and sodium pyrithione. Bacoban WB is free from aldehydes and phenol.

Uses
For the disinfection of "medical" areas in accordance with Directive 93/42/EEC (Medical Devices) and all types of surfaces in hospitals, doctors practices, rehabilitation centres and retirement homes. Especially useful in areas demanding effective and long-lasting hygiene.
Particularly suitable for areas where unpleasant odours caused by micro-organisms form, such as toilets and sanitary facilities. Bacoban WB may be used in critical and sensitive areas of the pharmaceutical and cosmetic industries.

Microbiological effectiveness
Bacoban® WB is effective against: bacteria, fungi, hepatitis B and C viruses, HIV, influenza virus including H5N1, rotaviruses and adenoviruses.

Composition of product:
100 g solution contains: benzalkonium chloride 26 g, sodium pyrithione 2.5 g, polycondensates, perfume substances, purified water..

1000 ml bottle
art. no. BACWB1D

5000 ml canister
art. no. BACWB5

Physiochemical data:

Appearance:	yellow, clear liquid
Viscosity (DIN 53211):	110 sec at 2 mm opening
pH value concentrate:	5.3
pH value 1 % solution:	7.0
Density:	1.04 g/cm3

Tested in accordance with VAH guidelines (high organic load)

Effectiveness	5 min	15 min	240 min
Tested in acordance with VAH guidelines:	2%	1,5%	
Virucidal effect conforms to *RKI / DVV- guide lines; including pathogens such as HBV, HCV, HIV, influenza, BVDV and vaccinia	1%		
Rotaviruses	0,1%		
Adenoviruses, Noroviruses			2%

Effectiveness	5 min	15 min
DIN EN 1040	0,25%	
DIN EN 1275	0,25%	
DIN EN 1276	0,75%	0,5%
DIN EN 1650	0,5%	0,25%
DIN EN13697		0,5%

UBA No: 57040031
Biocide reg.-no: N-28795

further information

www.bacoban.com

Nebuliser

Surface disinfection:

- even
- comprehensive
- reliable
- sustained effect

Ideal for:

Hospitals
Clinics
Doctor's surgeries
Laboratories
Ambulances
Rescue services
Retirement homes
Rehab centres
Thalasso therapy centres
Saunas
...

further information

www.bacoban.com

Disinfectant for nebuliser

Bacoban® DL 3 % disinfection and cleaning of medical surfaces acc. Directive 93/42/EEC (medical devices) and surfaces of all kinds in clinics, doctor's surgeries, rehab centres and residential homes. Particularly suitable for use in areas in which efficient and sustained hygiene is required.

Also particularly suitable for areas in which unpleasant smells are generated by microorganisms, such as toilets and sanitary facilities.

Bacoban® DL 3 % can also be used in critical and sensitive areas in the pharmaceutical and chemical industries.

Water-based concentrate

BACWB5

BACWB1D

Alcohol-free disinfection and cleaning of medical fixtures and other surfaces (acc. Directive 93/42/EEC, MDD)

VAH listed

Derived from this:

3 % Bacoban® DL ready-to-use solution

Ready-to-use solution for disinfection and cleaning of medical fixtures and other surfaces (acc. Directive 93/42/EEC, MDD)

Suitable for Bacoban® nebuliser

Alcohol based | Ready-to-use

5000 ml canister
art. no. BAC5000

250ml pump spray
art. no. BAC500

Composition of product:

100g solution contains: ethanol 49.4 g, isopropanol 7.1 g, benzalkonium chloride 0.71 g, sodium pyrithione 0.05 g, polycondensates, perfume substances, purified water. Contains no formaldehyde. Phenol-free.

Physicochemical data:

Appearance:	transparent liquid
Viscosity (DIN 53211):	42 sec at 2mm opening
pH value (mixture in water 1:1):	5
Density:	0.89 g/cm³

Tested in accordance with VAH guidelines (high organic load)

Effectiveness	15 sec	30 sec	1 min	5 min	15 min
Tested in accordance with VAH guidelines: bacteria and fungi				X	
Mycobacteria					X
RKI /DVV- guidelines; including pathogens such as HBV, HCV, HIV, influenza, BVDV and vaccinia		X			
Rotaviruses	X				
Adenoviruses			X		

Effectiveness	5 min	15 min
DIN EN 1040	X	
DIN EN 1275	X	
DIN EN 1276	X	
DIN EN 14348		X

Long-lasting antimicrobial and virus-inactivating effect for up to 10 days tested according to ASTM E 2180

Biocide reg.-no.: N-23123

Product

Ready-to-use, alcohol-based surface disinfectant containing a polycondensate, a quaternary ammonium compound and sodium pyrithione. **Bacoban®** is free from aldehydes and phenol.

Uses

For the disinfection of alcohol-resistant "medical" areas in accordance with Directive 93/42/EEC (Medical Devices) and all types of surfaces in hospitals, doctors practices, rehabilitation centres and retirement homes. Especially useful in areas demanding effective and long-lasting hygiene. Particularly suitable for areas where unpleasant odours caused by micro-organisms form, such as toilets and sanitary facilities. Bacoban may be used in critical and sensitive areas of the pharmaceutical and cosmetic industries.

Microbiological effectiveness

Bacoban® is effective against: bacteria (incl. mycobacteria), fungi, hepatitis B and C viruses, HIV, influenza virus including H5N1, rotaviruses and adenoviruses.

further information

www.bacoban.com

Pedexan®

Longterm shoe disinfection

Odour created as a result of perspiration occurs when bacteria (predominately Brevibacterium epidermis on feet) decompose sweat. Athletes foot is a very common skin disorder and it is often caused by pathogens such as filamentous fungi (dermatophytes) and yeast (candida)

Pedexan® provides a highly effective remedy as it...

- ✔ kills bacteria and fungi within minutes
- ✔ creates an environment in which micro-organisms are unable to survive.
- ✔ provides highly durable and long lasting protection
- ✔ effectively combats odors
- ✔ helps to prevent foot infections
- ✔ is bio-compatible

1000ml refill bottle
art. no. PED1000A

125ml pump spray
art. no. PED125A

Shoe Disinfection Dispenser with spray lance

Art.No.:PEDSPEND

- ✔ for fixed, large scale application or mobile use
- ✔ Ideal for the hygienic treatment of footwear, e.g. ski boot rental, bowling alleys, hospitals, poultry plants, gyms, orthopaedic technology centres, airports, etc.

Suitable for the 1-litre refill bottle.

Simple to apply

- ✔ Spray into the shoe.
- ✔ We recommend three applications per week.
- ✔ With regular application a „cumulative" anti-microbial effect is created. This effect can last for several weeks.

www.ccm-international.eu

Private Label

Wet wipes (dispensing tubs round, oval & with hinged lid, dispensing buckets and flowpacks)

Pump spray bottles made of plastic and aluminium, from 7-500ml, several bottle shapes available

Aerosols

Single/Double sachets

- **We fulfil your wishes with reasonable prices**
- **Workable MOQ's**
- **Products Made in Germany**
- **Upon request our service also includes artwork creation includes artwork creation**

www.ccm-international.eu

CCM GmbH
Diepenbroich 8 | D-51491 Overath / Germany
phone +49 (0) 2206 / 938 590-0
fax +49 (0) 2206 / 938 590-99
info@ccm-international.eu
www.ccm-international.eu

CCM®

Creative Chemical Manufacturer

Liquid Glass Coatings

Applications. Training. Project Management.

CCM GmbH from Overath near Cologne is one of the world‘s leading developers of liquid glass coatings and sells its products in over 80 countries. The technology benefits from being „High-Tech“ and „Made in Germany“.

In order to ensure that our partners gain the best possible performance from this exceptional technology we ensure that the national and international sales partners receive detailed guidance and professional training.

Service program

Applications

We will conduct all applications for partners or their clients as either CCM GmbH or under your company name.

We are your service partner in all areas, eg. Hotel, buildings, gastronomy, sports (gyms, spas, swimming pools), vehicles (cars, buses, trains, caravans), hospitals and more.






Project management

We will coordinate all aspects of a project and advise your application specialists - all under your name.

Training

We will show you how to use the full range of liquid glass coatings in order to offer the appropriate coating for your specific needs (eg.we offer several coatings for glass, each offering subtly different performance characteristics. We will evaluate your specific needs an then apply or train you how to apply the appropriate coating).

Training, organized by us.

Several times a year we offer training courses. These courses take one or two days. Participants are informed about our complete range of coatings and associated application techniques. Information about the dates of these courses is available on our website.

Individual training

You are also welcome to book our trainers by the hour or by the day. We are 100% flexible and design the training to meet your needs.

These training workshops are organized at our office or at a location of your choice. We conduct individual or group training events, such is our emphasis on flexibility that a flat rate fee applies for training 1 to 5 persons.

Partner training

We can also train your client's „in-house team". For example, a hotel wishes to coat all bathrooms using their cleaning staff. We offer the training to these staff, under your name.

Service Partner

We are building a nationwide network of authorized service partners in various areas, such as: marine, auto and aviation detailing, horticulture, facilities management and the hotel sector.

After training, we guarantee territorial protection and refer requests from your area to you; you may then advertise with our authorization.

We successfully partner individuals and organisations in over 80 countries and we recognise the true value of co-operation.

„Alone we can do so little; together we can do so much.“
Helen Keller

Liquid Glass Coatings

Acting successfully on the market together with us.