



7641 Hybrid Coating

7641 Hybrid is a hybrid, two-component, transparent coating. This coating provides a high gloss appearance which provides weather resistance for many years. The coating offers a range of valuable attributes.

It of course offers an easy-to-clean-effect which means that environmental soiling agents don't adhere to the coated surfaces. In addition, the sealed surfaces can be cleaned without special cleaning agents, simply clean with water and a sponge. Faded or "chalked" surfaces can be rejuvenated and will appear like new, as the former shine and colour returns after being coated with **7641 Hybrid**. One of the key attributes of the 7641 is its oxygen barrier characteristics which makes it ideal for use as an anti-corrosion coating.

7641 Hybrid can also be used to coat marble. Marble (and similar calcite-based stone) is highly reactive to acids, both in liquid and gaseous form. Over recent years we have been developing this high-performance coating technology which allows for the easy coating of marble via a one product coating.

In all instances the coating creates a glossy surface.

Coated marble will resist staining from wine and lemon juice for over 12 hours.

TECHNICAL DATA

Mixture ratio (by weight):	base: hardener = 5,5 : 1
Dilution:	not suitable for dilution
Finish:	high gloss
Colour:	transparent
Layer thickness:	approx. 10-25µm (dry)
Thermal load:	-40°C -> 350°C
Pot life:	approx. 4 hours (at 20°C)
Dust-dry*:	approx. 2 hours (at 20°C)
Loadable:	approx. 24 hours (at 20°C)
Completely cured:	approx. 7 days (at 20°C)

*application in ambient temperature lower than 10°C can prolong the drying process, humidity will speed up the drying process.



PACKAGE SIZE:

1 kg set

Other package sizes are to be agreed upon depending on the mode of transport.

LABELLING / TRANSPORT

UN 1263. Classified as „flammable“ according to ADR/RID/IMDG/IATA.

STORAGE

The product may be stored for at least 24 months in its original packing. Protect from frost and direct sunlight.

SAFETY/PROTECTION MEASURES

When using this product please take note of the instructions on the bottle/canister. We wish to make it clear that the use of chemical preparations should only take place when the safety measures are observed and are always out of the reach of children. The technical information given here is according to the latest technical knowledge and composed from our own experience. In view of the many uses possible with this product it is therefore the responsibility of the user to act according to the given situation in respect of safety - that is to say the user acts upon their own responsibility in any given situation when using this product. That the use of this product takes place out of our jurisdiction, we have set out safety and protection measures, but we cannot be held responsible in any circumstances. For any misuse of the product we cannot be held responsible. In the event of a new version of this information becoming available – this information here set out is no longer valid.

OVERVIEW, FOR APPLICATION ON METAL/PLASTICS (SEE SECTION 2, FOR USE ON MARBLE)

The coating creates a high performance anti corrosion layer on metals. This attribute (which occurs without heating) linked with the anti-graffiti characteristics of the technology makes this an ideal, easy to apply coating for a wide range of products including street furniture, signage, railways and marine applications.

7641 Hybrid is ideal for use in the marine sector as it can be used on aluminium (treated or untreated), stainless steel, brass, copper, several kinds of plastics and GFK/GRP. In addition, surfaces that have been coated with other lacquers/paints can be refreshed, sealed and durably protected. Re application is straight forward and in addition the coating can also be refreshed with the application of **CCM 7660 Polish**. The application of the 7660 is to maintain a vibrant and easy to clean surface if the coating becomes dulled through abrasion. It is stressed that the 7660 polish is not intended to replace the 7641 in case of heavy abrasion.



CERTIFICATION

- Certified according to AS/NZS4020 2005 (Australia) for use in contact with drinking water.
- Certified for use in contact with food (EU).

CHARACTERISTICS

- excellent shine and durability
- long-lasting "easy-to-clean" characteristics
- old and faded colours are refreshed and regain an "as new" shine
- anti-Graffiti characteristics
- anti-Fingerprint on metallic surfaces
- long-term corrosion protection
- uv-protection significantly reduces bleaching
- extremely resistant to mechanical and environmental degradation.
- resistant to most domestic grade acid and alkaline cleaning agents, as well as organic solvents.
- high yield due to suggested 20 micron layer thickness

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
- We suggest the use of **CCM Biosativa® Bio Cleaner** to remove general and oil-based soiling. For silicone waxes and other coatings please use the recommended specialist agents.
- Alternatively, pre-cleaning with acetone or isopropanol may be suitable. (Re "Compatibility")

COMPATIBILITY

- Corroded areas must be thoroughly cleaned and all corrosion removed before coating
- When used on plastics or already painted/lacquered surfaces, test on an inconspicuous area to ascertain if the surface is solvent-resistant (e.g. decorative adhesive labels on hull, or polycarbonate surfaces)
- The adhesion to plastics can be possibly improved by sanding with a very fine paper
- There is no need to use a primer. Aluminium can also be coated without a primer coat.

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 5 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 a fine pored foam roller and spread the product with a very thin layer over the surface you wish to coat. Avoid product soaking into the roller in order to avoid “stripes”
- Use a fine grade microfiber or fine grade sponge in order to coat small surfaces or surfaces which cannot be reached with a roller
- Use the **CCM Low Pressure Spray System** for spray application. Spray application provides the highest quality finish.

GENERAL RULES

- Avoid product soaking into the application roller or cloths.
- Follow the rule “less is more”

If a too thick layers applied there will be the danger of roller marks when a roller or microfiber is used.

AFTER APPLICATION

- Application tools can be cleaned with standard thinner or solvents.
- Humidity after application accelerates the drying process
- Insects are drawn to the odour of this coating and so, avoid application just before sunset or at times when insects are prevalent.
- Impurities that have been trapped during the drying time can ,in certain instances, be polished away after complete
- drying
- “Easy-to-clean”-effect and chemical resistance are achieved some days after application (3 days to 7 days depending on the curing temperature and associated humidity).
- The application of a remedial coating for corrections can only be carried out after light abrasion of the surface.

Details of application are highly dependent on the surface to be coated. We would be happy to advise you on this.

COVERAGE RATE

Depending on the type of application approx. 50 – 80m² / kg.

Significantly less when spraying with any device other than the CCM Low Pressure Spray System.



OVERVIEW FOR APPLICATION ON MARBLE

7641 Hybrid is ideal for use on any marble surface. The coated surface becomes glossy and very easy to clean. In the event that the end user wishes to achieve a matt appearance it is suggested that the surface is lightly abraded with a fine abrasive such as 1000 grit abrasive.

Over time the surface will become less glossy as surface abrasion will inevitably degrade the surface. It is suggested that the **CCM 7660 Polish** is used as an easy to apply maintenance product as this will create a very easy to clean coating which will refresh the surface after abrasion.

Re application of the coating is very straight forward. Simply clean and or abrade the surface and spray the coating on to the target surface.

7641 Hybrid is optimised for spray application with the **CCM Low Pressure Spray System (see below)** on marble.

Simply mix the components together and allow the liquid to "stand" for 10 minutes before spray application.

Apply the coating on to the target surface at a layer thickness of between 20-25 microns.

Allow the coating to bond at room temperature (20°C) for 24 hours before any form of mechanical loading.

Full protection is established after 7 days at 20°C. (IR heating can be used to reduce the curing time. The exact times are dependent on the thickness of the marble and heat output of the IR source.)

If it is essential that the surface is useable after 24 hours every effort must be made to limit mechanical loading and prevent any attack from acids, alkaline and solvents.

CERTIFICATION

- Certified according to AS/NZS4020 2005 (Australia) for use in contact with drinking water.
- Certified for use in contact with food (EU).

CHARACTERISTICS

- 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 most domestic acid and alkaline cleaning agents, as well as organic solvents.
- Heat tolerant, ambient temperature 350°C, point temperature 220°C



COVERAGE RATE

Depending on the type of application approx. 50-80m² / kg.

Significantly less when spraying with any device other than the CCM Low Pressure Spray System.

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 can 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. Avoid 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.

CCM LOW PRESSURE SPRAY SYSTEM

The **CCM Low Pressure Spray Gun** is probably the world's most sophisticated spray gun/system and this is why we suggest that our partners use this technology for the application of our coatings.

Not only is it a multi award winning technology. Amongst other awards it is certified as EU/BAT which is "Best Available Technology". This award was presented as the spray gun reduces over-spray by a massive factor and offers 30% greater coverage per litre.

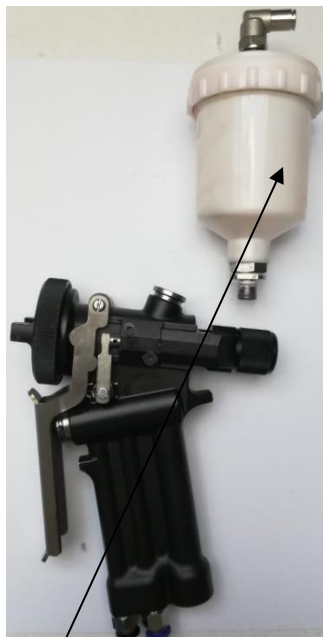
Unlike other spray systems this technology allows for the application of coatings within confined areas such as kitchens and bathrooms as there is almost zero overspray and so it is ideally suited for the application of our **7641 Hybrid** coating:

It also offers unprecedented controllability and this facility allows for the even application of coatings to marble. *(The spray gun is used extensively in the aviation sector as it offers a wide range of attributes, amongst which, it is the only spray gun which can be used to apply a coating of adhesive at 2 microns.)*

The spray gun can be run from a basic DIY compressor which are available for approximately 120€.

Videos are available on the CCM web page.

Art. No.	Product Description
HESG3807AC	Spray Gun and Air Control Manifold, customs code 8481 2000, designed for fitting to operators waist belt. Kit contents: Spray gun Air Control Manifold, Gravity Cup, Twin air supply hoses with push fittings, packed in aluminium case.



Gravity Cup



Air Control Manifold (tripe valve unit).
Designed for mounting on a belt or wait
Band.



AFTER APPLICATION

- Application tools and spray gun can be cleaned with standard thinner or solvents
- Humidity after application accelerates the drying process
- Insects are drawn to the odour of this coating and so, avoid application just before sunset or at times when insects are prevalent.
- Impurities that have been trapped during the drying time can, in some instances, be polished away after the coating has cured.
- "Easy-to-clean"-effect and chemical resistance are achieved some days after application (3 days to 7 days depending on the curing temperature and associated humidity).
- The application of a remedial coating for corrections can only be carried out after light abrasion of the surface.

Details of application are highly dependent on the surface to be coated. We would be happy to advise you on this.

COVERAGE RATE

Depending on the type of application approx. 50-80m² / kg.

Significantly less when spraying with any device other than the CCM Low Pressure Spray System.

PHYSICAL HEALTH

Does not contain free nanoparticles which might be dangerous to health.