

Q²

Quantum Quartz

ULTRA-COATING SOLUTION



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 SiO² (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



Multi-QR-Code zu
allen CCM Kanälen

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