Q² Quantum Quartz
Auto Coating Technology

www.liquidglass-coatings.com
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 several months on the exterior surface of a car.

7654 Q² Quantum Quartz WB Rapid On
(water based)
This coating is an aviation grade "wipe on" coating (Boeing Certified). 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 3 months.

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 500 nano meters it is approximately 5 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.

640 Q² Quantum Quartz – 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. This coating is supplied on a global basis to car detailers and is regularly applied to some of the world’s most expensive cars. 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:

<table>
<thead>
<tr>
<th>Application</th>
<th>7660</th>
<th>7654</th>
<th>7656</th>
<th>643</th>
<th>640</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>very easy, simply wipe on and buff off</td>
<td>very easy, simply wipe on and buff lightly</td>
<td>DIY - clean, apply with care and buff after curing</td>
<td>for skilled application</td>
<td>for professional application</td>
</tr>
<tr>
<td>Temperature</td>
<td>-25°C - +80°C, suitable for application in direct sunlight</td>
<td>0°C - +45°C</td>
<td>+5°C - +30°C</td>
<td>+5°C - +40°C</td>
<td>+5°C - +35°C</td>
</tr>
<tr>
<td>Durability</td>
<td>up to 3 months</td>
<td>up to 3 months</td>
<td>approximately 1 year</td>
<td>up to 36 months</td>
<td>up to 72 months</td>
</tr>
<tr>
<td>Curing Time</td>
<td>12 hours at 20°C (car usable after one hour)</td>
<td>5 minutes (car immediately usable)</td>
<td>12 hours at 20°C (car usable after one hour)</td>
<td>24 hours for water resistance, 6-7 days for abrasion resistance (car usable after 5 hours)</td>
<td>7 days at room temperature (car usable after 5 hours)</td>
</tr>
<tr>
<td>Perl effect</td>
<td>medium</td>
<td>high</td>
<td>high</td>
<td>high</td>
<td>high</td>
</tr>
<tr>
<td>Gloss effect</td>
<td>high</td>
<td>high</td>
<td>high</td>
<td>high</td>
<td>high</td>
</tr>
<tr>
<td>Scratch resistance</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>+++</td>
</tr>
<tr>
<td>ml per mid-range car</td>
<td>appr. 100ml</td>
<td>appr. 100ml</td>
<td>appr. 50ml</td>
<td>appr. 50ml</td>
<td>appr. 50ml</td>
</tr>
<tr>
<td>Consistence</td>
<td>Emulsion, solvent free (no waxes or silicones)</td>
<td>Liquid, water-based</td>
<td>Liquid, alcohol-based</td>
<td>Liquid, multi solvent-based</td>
<td>Liquid, multi solvent-based</td>
</tr>
<tr>
<td>Resistant to frost</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>UV resistant</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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</tbody>
</table>

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
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.
A World Class Coating: 640 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 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 Q² Quantum Quartz 9H coating?

Our Auto and Aerospace 9H Ceramics 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 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 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.
• 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 9H Ceramics 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 Auto and Aerospace 9H Ceramics 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.

<table>
<thead>
<tr>
<th>Volume</th>
<th>Art. No.</th>
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<tbody>
<tr>
<td>50 ml</td>
<td>640-50</td>
</tr>
<tr>
<td>100 ml</td>
<td>640-100</td>
</tr>
<tr>
<td>1.000 ml</td>
<td>640-1</td>
</tr>
</tbody>
</table>

All Coatings can also be used on:
The CCM Range of Car Coatings

**Bodywork:**
7654/7656/7660 Metal and Plastics Coating
640/643 Permanent Protect

**Car glass:**
7601 Glass and Ceramic Coating

**Head lights:**
7654/7656/7660 Metal and Plastics Coating
640/643 Permanent Protect

**Rear lights:**
7654/7656/7660 Metal and Plastics Coating

**Rims:**
7654/7656/7660 Metal and Plastics Coating
640/643 Permanent Protect

**Trim (unpainted plastic):**
7654/7656/7660 Metal and Plastics Coating
640/643 Permanent Protect

**Car glass:**
7601 Glass and Ceramic Coating

**Seats:**
- Fabrics: 7689
- Leather (natural) non painted: 7625
- Leather painted / coated: 7656

**Dashboard:**
Metal and Plastics: 7656/7660