

# TECHNICAL DATA SHEET V1.0

## Product Information: Unicoatings™ UC GLASS COAT

### DESCRIPTION

Unicoatings™ UC GLASS COAT is a transparent scratch-resistant non-stick coating with medium- to long-term weather resistance and flexibility properties.

UC GLASS COAT is a ceramic 'hybrid' coating that suitable for use on almost all smooth surfaces. The sealant contains both inorganic and organic components. Organic components give the product its easy-to-clean and flexibility properties, while the inorganic components provide its rigidity and weather resistance properties. The result of this 'hybrid' is a product that forms an ultra thin layer and provides a real seal with strong barrier properties.

### BENEFITS

- Transparent sealing; virtually invisible (colour deepening possible due to higher layer structure)
- Semi-permanent (3-5 years) protection; non-yellowing and weatherproof
- Treated surfaces are highly repellent against dirt, soiling and water and are easily cleaned
- Offers protection against micro-scratches, pencil hardness up to 9H
- Heat resistant, refractory up to 600°C
- Flexible; can be used on bendable surfaces
- Corrosion protection; genuine seal with barrier properties
- Chemical resistant between pH1 and 12.5
- Excellent anti-graffiti protection properties
- Food safe; high proportion of inorganic groups
- Multi-functional; suitable for use on plastics, metal, natural stone and already painted surfaces

### USES

Sealing of metals:

- Protection against corrosion and oxidation
- Easy to clean, with low dirt adhesion
- Protects against scratches
- Protection against damage from bird droppings

Sealing of plastics:

- Protects against scratches
- Easy to clean, with low dirt adhesion
- Strong anti-graffiti and colour protection properties

Sealing of lacquered surfaces:

- Protects against scratches
- Easy to clean, with low dirt adhesion
- Strong anti-graffiti and colour protection properties

Sealing of painted surfaces:

- Protects against micro-scratches and small stone impacts
- Easy to clean, with low dirt adhesion
- Protection against damage from bird droppings
- Colour protection properties

### TECHNICAL DATA

UC GLASS COAT is a ceramic hybrid coating with organic and inorganic content.

### APPLICATION

- Use undiluted on surfaces that are thoroughly clean, dry, and free of grease and silicone, wax or polish residues. We recommend pre-cleaning the surface with either butyl acetate or isopropanol. Previous varnishes must be completely dry. For metals, any corrosion spots must be thoroughly removed.
- Apply when the temperature is above 3°C and the substrate being treated is between 3°C to 40°C. Do not use in direct sunlight
- UC GLASS COAT is solvent-based, so the compatibility with the surface should always be tested on an inconspicuous point before use
- Then, using the supplied application cloth, apply a small amount of UC GLASS COAT and spread thinly and evenly on the surface being treated using a circular motion, but no pressure. Try to avoid stripes forming as this suggests uneven layers are accumulating. Allow to dry for 2 minutes and then polish the coating with the same cloth, using a little pressure, but leaving no streaks
- To increase the layer thickness, repeat this process several times (maximum 4 times) at 5 minute intervals. A higher layer thickness improves the abrasive protection and increases the visibility of the product. Recommended layer thicknesses are between 600nm and 3µm
- Recommended data for spray application: HVLP, 2-3 bar, nozzle 0.8-1.3mm
- UC GLASS COAT is dust-dry after approximately 15 minutes and can be exposed to water after 24 hours. The complete formation of layer hardness and chemical resistance is achieved after approximately 7 days. The initial formation of product properties can be accelerated by heating the coated surface (ideally 80°C for 30 minutes, then wait for 4 hours). However, complete through-drying is always only achieved after 7 days

The product will weather evenly and without staining over the ensuing years. During this time, any damaged areas can be repaired at any time. The product then only binds to the defected area. In the case of a large area renovation, coating residues should be removed abrasively beforehand. CeO<sup>2</sup> polish is ideal for this purpose

Details in the processing depend heavily on the surface to be treated. Unicoatings is happy to advise you in detail on this matter.

### PACKAGING

UC GLASS COAT is available in 100ml bottles or 1-litre bottles. Other container sizes might be possible following consultation with Unicoatings regarding the method of transport.

### COVERAGE RATE

Approximately 20m<sup>2</sup> per 100ml depending on the application.

### **LABELLING / TRANSPORT**

UN 1993. Classified as “flammable” according to ADR/RID/IMDG/IATA.

### **STORAGE**

UC GLASS COAT can be stored for at least 24 months in its original closed container. Use only glass or aluminium containers with a safety closure. Protect from frost and direct sunlight.

### **HEALTH**

UC GLASS COAT contains no free nanoparticles that might be hazardous to your health.

### **DISPOSAL**

Empty bottles, as well as any remaining product, must be disposed of in accordance with your country’s laws and regulations.

### **SAFETY / PROTECTION MEASURES**

When using UC GLASS COAT the instructions and safety recommendations on the packaging must be observed at all times. 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 provided here is in accordance with the latest technical knowledge and composed from our own experience. However, given the variety of substrates and object conditions, the user is responsible for checking our materials and their suitability for the customer’s application. As the use of this product takes place out of our jurisdiction, no liability can be derived from the content of this technical data sheet. The information and instructions contained in the safety data sheet must be complied with at all times. 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.

All information on our products can be found on our website: [www.unicoatings.com](http://www.unicoatings.com)

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