

TECHNICAL DATA SHEET V1.0

Product Information: Unicoatings™ UC2K

DESCRIPTION:

A transparent 2-component lacquer based on advanced chemistry.

CHARACTERISTICS:

Unicoatings™ UC2K offers a long lasting glossy surface and protection against UV and weathering. The treated surfaces are easy to clean, mostly without special cleaning agents and, due to the easy to clean properties, will substantially reduce polluting.

After treatment, dull and tired paintwork, fibreglass surfaces, and cloudy and tired anodised aluminium gleams again “just like new” and in original colours. Surfaces such as aluminium, brass and copper are protected long-term against corrosion. Perfect for use on aluminium (whether treated or not) stainless steel, brass, copper, magnesium, ceramics, fibreglass, concrete, as well as on plaster surfaces and mineral bases. Surfaces already coated with other products can be “refreshed”, sealed and protected on a long-term basis.

- Excellent gloss and long-life properties
- Long lasting “easy-to-clean” final coating
- Protection against UV rays which prevents bleaching of surfaces
- “Anti-graffiti” and “Anti-fingerprinting” capability
- Long lasting protection against corrosion
- Extreme resistance to mechanical influences
- Stability against condensation and climatic / temperature variations
- Resistance against acid and solvent invasions
- No special preparation of the base material is required
- High productivity because of extremely minimum layer thickness
- Temperature stability: -20°C to 250°C

BASE DATA:

Number of components: 2 (Base and Hardener)

Colour: Clear

Gloss level: Gloss

Shelf Life: Base and Hardener for at least 12 months in its original packing, cool and dry stored. Protect from frost and direct sunlight.

TECHNICAL DATA:

Theoretical coverage: 30-40m²/kg

Recommended Dry Film Thickness (DFT): 10-25µm

Method of application: Brushing, rolling, ragging, spraying or immersion

Number of layers: apply 1 layer

Application process temperature: between 5 °C and 30 °C.

Humidity: max. 80% during application and drying process.

VOC Information: approximately 3% in Base, 0% in Hardener

AVAILABILITY / PACKAGING:

1, 5 AND 25 LITRE PACKAGING.

INSTRUCTIONS FOR USE:

Preparation

* Substrate:

- Existing sound coating systems: sufficiently roughened, dry and cleaned
- Surface must be dry, dust- and grease- free and free from any contamination

* Non-ferrous metals and stainless steel:

- Surface must be dry, dust- and grease- free and free from salts and any contamination
- Surface should be sufficiently roughened (e.g. sandpapering, sweep blasting)
- Take special care of removal of fingerprints for instance with Unicoatings UC CLEANER

For Substrate and Non-ferrous metals and stainless steel: Final cleaning with Unicoatings UC CLEANER or alternatively Isopropanol (99+%).

Make sure cleaned surface is dry before application.

Substrate temperature and application conditions

- Surface temperature during application should be between 10°C and 40°C
- Substrate temperature during application and curing should be at least 3°C above dew point
- Ambient temperature during application and curing should be between 5°C and 45°C
- Relative humidity during application and curing should be between 50% and 85%

MIXING RATIO:

UC2K mix ratios: Base : Hardener = 2,5 : 1 by weight (stir well before use to ensure homogeneity)

Induction time: none

Pot life: 4 hours at 20°C

Fast dilution: Isopropanol (99+%) or Unicoatings Standard UC2K Dilution

Medium/Slow dilution: Unicoatings UC2K Medium/Slow Dilution

Air spray (HVLV) dilution:

- 0 - 10%, depending on required thickness and application conditions and surface
- Nozzle: 1.0 - 2.5 mm

Brush/roller dilution:

- 0 - 5%, depending on required thickness and application conditions and surface

CLEANING EQUIPMENT:

Cleaning with Isopropanol.

Empty containers as well as any remaining product must be disposed of according to the local laws and regulations

DRYING AT 20 °C:

Dust dry: 2,5 hour

Dry to handle: 24 hours

Full cure after: 14 days

Accelerated Drying: above 60°C when dust dry

Pay attention to:

- Maintain ventilation during application and curing
- Low Relative Humidity (<40%) will extend drying time.

HEALTH AND SAFETY:

The product is for professional use only, and is not to be used for purposes other than specified. The information on this TDS is based on present scientific and technical knowledge, and it is the responsibility of the user to take all necessary steps in order to ensure the suitability of the product for the intended purpose.

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.

Always use the right personal protection during preparation, application and curing: protective goggles, clothing, gloves and mask. Prevent contact with skin and eyes.

For Health and Safety information please check the corresponding Safety Data Sheet (SDS).