

TECHNICAL DATA SHEET V1.0

Product Information: Unicoatings™ UC2K MARINE COAT

DESCRIPTION:

A transparent 2-component lacquer based on advanced chemistry.

CHARACTERISTICS:

Unicoatings™ UC2K MARINE COAT 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 are more resistant to soiling.

After treatment, dull and tired paintwork, chalky fibreglass (CGFK) surfaces and cloudy anodised aluminium gleam “just like new”. 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 and chrome are protected long-term against corrosion. 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 due to extremely thin coating layer
- Temperature stability: -20°C to 250°C

SPECIFICATION DATA:

Type: 2-component Sol-gel hybrid coating based on modified silicone. Sold as concentrate to be diluted up to 100% with Isopropyl alcohol depending on the use and application.

Colour: clear

Packaging: Base in 3 or 5 litre containers; Hardener in 1 or 4 litre containers.

SPRAY APPLICATION:

Theoretical coverage: 30-50m² per kg. depending on surface and application.

RECOMMENDED WET FILM THICKNESS:

30-60 microns in 1 or more coats.

RECOMMENDED DRY FILM THICKNESS:

15-30 microns.

BRUSH / SPONGE / WIPE ON APPLICATION:

Theoretical coverage: 40-60m² per kg. depending on surface and application.

RECOMMENDED WET FILM THICKNESS:

30-60 microns in 1 or more coats.

RECOMMENDED DRY FILM THICKNESS:

15-30 microns.

Anticipated Cure Time at 20°C 65% R.H.:

Dust dry in approximately 2.5 hours, 24 hours to light service, 14 days for full cure.

RECOATABILITY:

Spray application: consist of 1 or more coats applied wet in wet within approximately 60 minutes. Exact time will vary depending on temperature and humidity, project size and film thickness applied.

Brush / Sponge / Wipe on application: 1 coat should be sufficient.

VOC: 3% VOC in Base. Hardener is VOC-free.

APPLICATION EQUIPMENT:

HVLP gun with 1.0 / 1.4 nozzle.

SURFACE PREPARATION:

For best results UC2K MARINE COAT should be applied over correctly prepared surfaces.

MIXING & REDUCTION:

Stir base thoroughly using an electric mixer (start slowly, then increase up to 300 rpm). Add Hardener and mix both components thoroughly (including the sides and bottom of the container). Mix for at least 3 minutes until a homogenous mixture is achieved. During mixing and handling always wear protective goggles, suitable gloves and other protective clothing.

Mixing ratio: Base : Hardener = 2.5 : 1 by weight

The lacquer should be reduced by adding up to 100% Isopropyl alcohol 99%+ pure depending on application.

APPLICATION INSTRUCTIONS:

The application method has a major effect on achieving uniform thickness and appearance. Spray application gives the best results. The indicated dry film thickness is easily achieved by airless spray and by brush. Adding the appropriate solvents reduces the sag resistance and the dry film thickness. When applying by brush or sponge, additional coats might be necessary to achieve the required coating thickness, depending on the type of construction, colour shade etc. Prior to any coating operation a test application on site should be conducted to ensure the selected application method will provide the desired results.

Brush / Sponge: Can be applied undiluted.

Conventional High Pressure Spraying: Nozzle size 1.3 – 2.0mm; pressure 3 – 5 bar. Always use oil and water separator.

Airless Spraying: With a spray pressure of minimum 180 bar; nozzle size 0.28 – 0.43mm (0.011 – 0.017"); spray angle 40-80°

WARNING:

Do not apply to surfaces below 5°C or above 40°C, nor in direct sunlight. Ambient temperatures should be between 5°C to 45°C.