

# TECHNICAL DATA SHEET

## NANOSKIN ANTI - CORROSION

### Description

Permanent coating to prevent corrosion.

### Function

To protect non-absorbent surfaces from dirt, weathering and corrosion.

### Main characteristics

- Permanent transparent coating
- Easy to apply via spray
- Strong durability
- Excellent corrosion protection
- Ecological
- Curing at room temperature
- Fluorine-free
- High UV and chemical resistance
- Heat resistant over 400°C

### Colour and shine

Matte, transparent appearance.

### Basics

- Base: polysilazane
- Solvent: n-butyl acetate
- Rel. Density at 20°C: ca 0,92 kg/l
- Appearance 20°C: Liquid
- Curing time: 12h\*
- Flashpoint: 16°C

\*Low temperatures and high relative humidity slow down curing time.

### Application

Nanoskin AC is suitable for smooth, non-absorbent surfaces such as GRP, 1 or 2 component paint (PU or epoxy), but especially for metallic substrates such as aluminium, zinc, stainless steel, copper and various alloys.

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## Efficiency

### Theory:

50-100 m<sup>2</sup> per litre.

### Practice:

The practical consumption depends on certain factors such as the grade of absorption of the substrate, condition and profile of the surface, method of application, experience and weather conditions.

## Surface conditions

Clean and dry. It is important that the surface to be treated is sufficiently cleaned, grease-free and dry.

## Application conditions

For optimal results, following conditions should be taken into consideration:

- Environmental temperature of 5-30°C
- Rel. Humidity 30% - 80%
- Shake before use and do not dilute
- Application through spray (HVLP, 3-4bar, 0.8-1.3mm nozzle opening)\*\*
- Sufficient ventilation during application and curing
- Wearing gloves, mouth mask, safety glasses and clothing is recommended

\*\* These values are recommended by Nanoskin. These are however dependant on the field of application, weather conditions and user experience.

## Application instructions

Clean the substrate sufficiently and let it dry. Solvents such as thinner and acetone are effective for removing contaminants. Afterwards apply Nanoskin Anti-Corrosion using a good atomizing spray. For optimal results, treat the entire surface and distribute the product evenly. The drying period varies depending on the temperature. 8-12h at room temperature, 2h at 80°C, 1h at 130-180°C. Do not use the substrate or let it get wet during this period.

The coating is fully operational and ready for testing after 5-7 days of drying at room temperature (22°C, 50% R.L.).

Immediately after use, clean tools with IPA/thinner/acetone.

Please consult the Nanoskin Anti-Corrosion user's manual for more elaborate application instructions.

Note: To ensure the effectiveness of the coating, we always recommend testing a small part of the material before treating the entire surface. This will allow any undesired discolouration to be detected at an early stage. Errors in application can be corrected within about 10min after application. After this, the already water repellent effect of the coating makes it impossible to apply another layer.

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## Cleaning

Surfaces coated with Nanoskin AC do not require any specific cleaning. After treatment, the surface can, if necessary, be cleaned with water and possibly a low PH soap.

## Security measures

See safety data sheet (MSDS).

## Preservability

Stored in sealed packaging in a dry and frost-free place (20°C) at least 12 months preservable.

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In case of intoxication, immediately contact the poison control centre on the number: +32 (0)70.245.245