

PRODUCT DATA SHEET

Sika® Permacor®-2330

Future name: Acrolon® 2330

2-pack AY-PUR top coat

DESCRIPTION

Sika® Permacor®-2330 is a 2-pack acrylic polyurethane top coat.

USES

Sika® Permacor®-2330 may only be used by experienced professionals.

Sika® Permacor®-2330 is used as mechanical resistant topcoat for atmospherically exposed steel surfaces - also for condensation - particularly for machinery, paper mills, engines, rollercoasters and commercial vehicles.

In combination with 2-pack primers and intermediate coats of the SikaCor® and Sika® Permacor® range Sika® Permacor®-2330 offers a mechanical resistant coating system for long-life corrosion protection with high weather resistance up to corrosivity category C5 very high, acc. ISO 12944-2.

PRODUCT INFORMATION

Packaging	Sika® Permacor®-2330	28.75 kg and 11.5 kg net.
	Sika® Thinner P	25 l and 5 l
Appearance and colour	RAL- and NCS-colour shades, glossy mat.-no. 687.75- 687.99 and mat.-no. 697.75-697.99 Others upon request.	
Shelf life	2 years	
Storage conditions	In originally sealed containers in a cool and dry environment.	
Density	~1.3 kg/l	
Solid content	~56 % by volume ~69 % by weight	

CHARACTERISTICS / ADVANTAGES

- Very high weather resistance
- Very high gloss- and colour retention
- High scratch resistance
- Applicable also at low temperatures down to 0°C

APPROVALS / CERTIFICATES

- Approved according to German standard 'TL/TP-KOR-Stahlbauten, Blatt 87 and Blatt 97.
- Tested according to NORSOK Standard M-501, rev. 6, system no. 1.

TECHNICAL INFORMATION

Chemical resistance	Weathering, water, sewage, seawater, smoke, de-icing salts, acid and lye vapours, oils, grease and short-term exposure to fuels and solvents.
Temperature resistance	Dry heat up to approx. + 120°C, short term up to + 200°C Damp heat up to approx. + 50°C An exposure to high temperatures can lead to color changes.

SYSTEM INFORMATION

System	Steel Used as top coat on 2-pack primer and intermediate coats of the SikaCor® and Sika® Permacor® product range. Hot dip galvanized steel, stainless steel and aluminium 1 x SikaCor® EG-1 (Plus) or SikaCor® EG-1 VHS 1 x Sika® Permacor®-2330 In case of light colours a second top coat of Sika® Permacor®-2330 may become necessary to achieve perfect opacity.
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APPLICATION INFORMATION

Mixing ratio	Components A : B	
	By weight	100 : 15
	By volume	5.1 : 1*
* The volumetric mixing ratio may vary depending on the colour shade. Please refer to us if needed.		
Thinner	Sika® Thinner P If necessary, max. 5 % Sika® Thinner P may be added to adapt the viscosity.	
Consumption	Theoretical material-consumption/VOC without loss for medium dry film thickness:	
	Dry film thickness	50 µm 80 µm
	Wet film thickness	90 µm 145 µm
	Consumption	~0.115 kg/m ² ~0.185 kg/m ²
	VOC	~36 g/m ² ~58 g/m ²
Material temperature	Min. + 5°C	
Relative air humidity	Max. 85 %, except the surface temperature is significantly higher than the dew point temperature, it shall be at least 3 K above dew point. The surface must be dry and free from ice.	
Surface temperature	Min. 0°C	
Pot Life	At + 10°C	~8 h
	At + 20°C	~6 h
	At + 30°C	~3 h

Drying stage 6

Drying stage 6 and waiting time between coats:

	Dry film thickness 80 µm	(ISO 9117-5)
0°C after	48 h	
+ 5°C after	24 h	
+ 10°C after	18 h	
+ 15°C after	10 h	
+ 20°C after	8 h	
+ 25°C after	6 h	
+ 30°C after	4 h	

Drying time

Final drying time

The full hardness is achieved within approx. 7 days at + 20°C. Tests of the completed coating system should only be carried out after final curing.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Steel:

Blast cleaning to Sa 2 ½ according to ISO 12944-4. Free from dirt, oil and grease.

Hot dip galvanized steel, stainless steel and aluminium:

Free from dirt, oil, grease and corrosion products. In case of exposure to permanent condensation the surfaces must be slightly sweep blasted with a ferrite-free blasting abrasive.

For contaminated surfaces e.g. galvanized or primed areas we recommend to clean with SikaCor® Wash.

MIXING

Stir component A very thoroughly using an electric mixer (start slowly, then increase up to approx. 300 rpm). Add component B carefully and mix both components very thoroughly (including sides and bottom of the container). Mix for at least 3 minutes until a homogeneous mixture is achieved. Fill mixed material into clean container and mix again shortly as described above. During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothings.

APPLICATION

The method of application has a major effect on achieving uniform thickness and appearance. Spray

application will give the best results. The indicated dry film thickness is easily achieved by airless spray. Adding solvents reduces the sag resistance and the dry film thickness. In case of application by roller or brush, additional applications may become necessary to achieve the required coating thickness, depending on type of construction, site conditions, colour shade etc. Prior to major coating operations a test application on site may be useful to ensure the selected application method will provide the requested results.

By brush or roller

Airless Spraying:

- Pressure min. 150 bar
- Nozzle size 0.38 - 0.53 mm (0.015 - 0.021 inch)
- Spraying angle 40° - 80°

CLEANING OF EQUIPMENT

Sika® Thinner P

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sherwin-Williams` products, are given in good faith based on Sherwin-Williams` current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sherwin-Williams` recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product`s suitability for the intended application and purpose.

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