

PRODUCT DATA SHEET

SikaCor® PUR SW

1-pack, tar-free polyurethane coating for heavy-duty protection of steel

Made in Germany

DESCRIPTION

Highly abrasion resistant, 1-pack, tar-free polyurethane-coating, moisture curing.
Low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

USES

SikaCor® PUR SW may only be used by experienced professionals.

For the protection of steel in contact with water, e.g. hydraulic steel structures, chemical industry, harbour and lock installations, etc.
Especially suitable for refurbishment of old black coatings (e.g. coal tar pitch and tar epoxy resin coatings).

PRODUCT INFORMATION

Packaging	SikaCor® PUR SW	15 kg net.
	Sika® Thinner S	25 l, 10 l and 3 l
Appearance and colour	Black, redbrown, approx. RAL 7032, approx. RAL 9002 Other colour shades upon request. Slight colour deviations are possible due to raw material characteristics.	
	SikaCor® PUR SW tends to chalking and yellowing when frequently exposed to weathering. In case of higher demands regarding colour retention, top coats with SikaCor® EG-4 or SikaCor® EG-5 are recommended.	
Shelf life	6 months	
Storage conditions	In originally sealed containers in a cool and dry environment.	

CHARACTERISTICS / ADVANTAGES

- Tough-hard, robust
- Early exposure to water
- Application at low temperatures and high relative air humidity
- Suitable for cathodic protection systems

APPROVALS / CERTIFICATES

- Tested and listed by the Federal Institution for Hydraulic Engineering (BAW).
- Tested according to NORSOK M501, rev. 6, system No. 1.

Density	SikaCor® PUR SW	~1.4 kg/l	
	SikaCor® Zinc PUR	~2.8 kg/l	
	SikaCor® PUR-1	~1.6 kg/l	
Solid content	Product	By volume	By weight
	SikaCor® PUR SW	~72 %	~80 %
	SikaCor® Zinc PUR	~65 %	~89 %
	SikaCor® PUR-1	~58 %	~78 %

TECHNICAL INFORMATION

Chemical resistance	Freshwater, brackish and salt water, neutral salts, mineral and fuel oils, fat oils, detergents etc.
Temperature resistance	Dry heat up to approx. + 100°C

SYSTEM INFORMATION

System	<u>Steel:</u>
	1 x SikaCor® Zinc PUR 2 - 3 x SikaCor® PUR SW

Maintenance coating on steel:

Touch up with
1 x SikaCor® PUR-1
1 - 2 x SikaCor® PUR SW

APPLICATION INFORMATION

Thinner	Sika® Thinner S If necessary max. 5 % Sika® Thinner S may be added to adapt the viscosity.
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Attention! To ensure complete curing, only the recommended Thinner must be used exclusively! Other Thinners may lead to curing defects.

Consumption	Theoretical material-consumption / coverage without loss for medium dry film thickness of
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Product	SikaCor® PUR SW	SikaCor® Zinc PUR	SikaCor® PUR-1
Dry (DFT)	200 µm	80 µm	80 µm
Wet (WFT)	280 µm	125 µm	140 µm
Consumption	~0.390 kg/m ²	~0.345 kg/m ²	~0.220 kg/m ²
Coverage	~2.55 m ² /kg	~2.90 m ² /kg	~4.55 m ² /kg

Apart from small areas dry film thicknesses of 150 µm SikaCor® Zinc PUR, 180 µm SikaCor® PUR-1 and 400 µm SikaCor® PUR SW per layer should not be exceeded.

Material temperature	Min. + 5°C
Relative air humidity	Min. 30 %, max. 98 %, surface temperature shall be at least 3 K above dew point. The surface must be dry and free from ice.
Surface temperature	Min. + 0°C
Waiting time to overcoating	Min. 4 hours Max. 6 months
Drying time	Final drying time Depending on layer thickness, air humidity and temperature final hardness is achieved within 1 week.

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

Old coatings:

In case of well adhering old coatings only thorough cleaning is sufficient. If necessary the adhesion of the maintenance coat may be increased by sweep blasting of the old coating. Remove loose particles. In case of exposure to submersion, condensation and splash water damaged areas must be derusted to PSa 2 ½. In case of exposure to weathering surface preparation to PSt 3. Application of a trial area is strongly recommended.

MIXING

SikaCor® PUR SW is supplied ready for use. Prior to application stir thoroughly. Addition of Thinner decreases sag resistance and reduces the dry film thickness. Opened units must be used within one day.

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.

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PRODUCT DATA SHEET

SikaCor® PUR SW
January 2022, Version 03.02
020601000130000001

By brush and roller

Conventional high pressure spraying:

- Nozzle size 1.7 - 2.5 mm
- Pressure 3 - 4 bar

Airless-spraying:

- Pressure min. 180 bar
- Diameter of hoses min. 10 mm (¾ inch)
- Nozzle size 0.45 - 0.66 mm (0.017 - 0.027 inch)
- Spraying angle 50° - 80°

CLEANING OF EQUIPMENT

Sika® Thinner S

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 Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's 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. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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