

PRODUCT DATA SHEET

SikaCor® Zinc PUR

Future name: Corothane® Zinc PUR

1-pack moisture-curing polyurethane zinc dust primer

DESCRIPTION

SikaCor® Zinc PUR is a highly pigmented, zinc dust containing moisture-curing 1-pack primer based on polyurethane.

SikaCor® Zinc PUR can be overcoated with 1-pack moisture-curing coatings SikaCor® PUR-1 or SikaCor® PUR SW.

Low solvent content referring to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

USES

SikaCor® Zinc PUR may only be used by experienced professionals.
Corrosion protection for steel structures in aggressive atmosphere, e.g. marine and industrial climate.

CHARACTERISTICS / ADVANTAGES

- Fast curing
- Tough-hard, robust
- Applicable even under difficult application conditions, for example at low temperatures and/or high air humidity
- Very good corrosion protection

APPROVALS / CERTIFICATES

- Approved according to German Standard 'TL/TP-KOR-Stahlbauten', page 89.
- Tested and approved by the German Federal Waterways Engineering and Research Institute (BAW).
- Tested according to NORSOK M-501, rev. 6, system No. 1.

PRODUCT INFORMATION

Packaging	SikaCor® Zinc PUR	30 kg net.
	Sika® Thinner S	25 l, 10 l and 3 l
Appearance and colour	Zinc grey, reddish, mat.-no. 689.04	
Shelf life	6 months	
Storage conditions	In originally sealed containers in a cool and dry environment.	
Density	~ 2.8 kg/l	
Solid content	~65 % by volume	
	~89 % by weight	

Chemical resistance	The fully cured material is resistant to weathering, water and mechanical wear.
Temperature resistance	Dry heat up to + 150°C, short term up to max. + 180°C Damp heat up to + 60°C

SYSTEM INFORMATION

System	Steel 1 x SikaCor® Zinc PUR 1 - 2 x SikaCor® PUR-1 or 2 - 3 x SikaCor® PUR SW Suitable top coats: 1 x SikaCor® EG-4, SikaCor® EG-5 or Sika® Permacor®-2330 When applying top coats in light colour shades a 2 nd top coat may become necessary in order to achieve a perfect opacity.
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APPLICATION INFORMATION

Thinner	Sika® Thinner S If necessary max. 5 % Sika® Thinner S may be added to adapt the viscosity.								
Consumption	Theoretical material-consumption/VOC without loss for medium dry film thickness: <table border="1"> <tr> <td><u>Dry film thickness</u></td> <td><u>80 µm</u></td> </tr> <tr> <td><u>Wet film thickness</u></td> <td><u>125 µm</u></td> </tr> <tr> <td><u>Consumption</u></td> <td><u>0.345 kg/m²</u></td> </tr> <tr> <td><u>VOC</u></td> <td><u>37.9 g/m²</u></td> </tr> </table> <p>Apart from small areas the dry film thickness of 150 µm of SikaCor Zinc PUR should not be exceeded per application.</p>	<u>Dry film thickness</u>	<u>80 µm</u>	<u>Wet film thickness</u>	<u>125 µm</u>	<u>Consumption</u>	<u>0.345 kg/m²</u>	<u>VOC</u>	<u>37.9 g/m²</u>
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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	<u>Between primer coat and intermediate coat (at + 20°C):</u> <table border="1"> <tr> <td><u>Min.</u></td> <td><u>4 h</u></td> </tr> <tr> <td><u>Max.</u></td> <td><u>3 months</u></td> </tr> </table> <p>Higher layer thicknesses, but also lower temperatures than specified, lead to longer drying times. The overcoating intervals can be delayed and may need to be determined on site.</p> <p>In case of longer waiting times please contact us.</p> <p>When SikaCor® Zinc PUR is to be overcoated after a waiting period or after exposure to weathering, all zinc corrosion products or other contaminations must be removed from the surface before the subsequent coating material is applied.</p>	<u>Min.</u>	<u>4 h</u>	<u>Max.</u>	<u>3 months</u>				
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Drying time	Final drying time Depending on layer thickness and temperature final hardness is achieved within several days.								

BASIS OF PRODUCT DATA

on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

All technical data stated in this Data Sheet are based

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.

MIXING

All materials are supplied ready for use; stir thoroughly prior to application.

Attention, risk of injuries! Container may be under pressure. Lid may come off unexpectedly. Prior to opening reduce pressure, e.g. by piercing the lid.

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

Conventional high pressure spraying:

- Nozzle size 1.5 - 2.5 mm
- Pressure 3 - 5 bar

Airless-spraying:

- Pressure min. 180 bar
- Nozzle size 0.38 - 0.53 mm (0.015 - 0.021 inch)
- Spraying angle 40° - 80°

CLEANING OF EQUIPMENT

Sika® Thinner S

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PRODUCT DATA SHEET
SikaCor® Zinc PUR
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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. Sherwin-Williams 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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