

# PRODUCT DATA SHEET

# SikaCor® PUR Color NEW

## 2-PACK POLYURETHANE COATING FOR STEEL

### DESCRIPTION

SikaCor® PUR Color NEW is a 2-pack, silky mat corrosion protection coating based on aliphatic polyurethane containing zincphosphate as an active pigment. Suitable for dry film thickness of 80 - 160 µm per layer. By adding 1 % b.w. SikaCor® PUR Accelerator (see product data sheet for more information) a faster touch-drying and full curing will be achieved.

### USES

SikaCor® PUR Color NEW may only be used by experienced professionals.

Multi-coloured, robust and fast curing corrosion protection for steel constructions providing a long-lasting decorative effect.

Especially suited for work-shop application.

### CHARACTERISTICS / ADVANTAGES

- 1-coat system directly on steel
- UV- and weather resistant
- Tough-elastic and solid, non-brittling
- Shock and impact resistant
- Excellent chemical resistance
- Fast curing, even at low temperatures

### PRODUCT INFORMATION

<b>Packaging</b>	SikaCor® PUR Color NEW	30 kg net.
	Sika® Thinner EG	25 l, 10 l and 3 l
<b>Appearance / Colour</b>	RAL-colour shades Slight colour deviations are possible due to raw material characteristics.	
<b>Shelf Life</b>	2 years	
<b>Storage Conditions</b>	In originally sealed containers in a cool and dry environment up to max. + 20°C.	
<b>Density</b>	~1.4 kg/l	
<b>Solid Content</b>	~56 % by volume ~73 % by weight	

## TECHNICAL INFORMATION

<b>Chemical Resistance</b>	Weathering, increased humidity and short term exposure to de-icing salts, acid and lye vapours, oils, grease, fuels, solvents.
<b>Thermal Resistance</b>	Dry heat up to approx. + 120°C, short term up to + 150°C. Colour deviations may occur.

## SYSTEM INFORMATION

<b>Systems</b>	<p><b>Steel:</b> <u>Exposure to atmosphere (corrosivity cat. C2 high, ISO 12944-2):</u> 1 x SikaCor® PUR Color NEW</p> <p><u>Exposure to atmosphere (corrosivity cat. C3 high, ISO 12944-2):</u> 1 x SikaCor® ZP Primer 1 x SikaCor® PUR Color NEW or 1 x SikaCor® EP Color 1 x SikaCor® PUR Color NEW or 2 x 80 µm SikaCor® PUR Color NEW or 1 x 160 µm SikaCor® PUR Color NEW</p> <p><b>Hot dip galvanized steel:</b> 1 x SikaCor® EG-1 1 x SikaCor® PUR Color NEW</p> <p>When applying light colour shades of SikaCor® PUR Color NEW a second coat may become necessary to achieve perfect opacity.</p>
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## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Components A : B												
	By weight 92 : 8												
<b>Thinner</b>	Sika® Thinner EG If necessary max. 3% Sika® Thinner EG may be added to adapt the viscosity.												
<b>Consumption</b>	Theoretical material-consumption/VOC without loss for medium dry film thickness: <table><tr><td>Dry film thickness</td><td>80 µm</td><td>160 µm</td></tr><tr><td>Wet film thickness</td><td>145 µm</td><td>290 µm</td></tr><tr><td>Consumption</td><td>~0.200 kg/m<sup>2</sup></td><td>~0.400 kg/m<sup>2</sup></td></tr><tr><td>VOC</td><td>~54.0 g/m<sup>2</sup></td><td>~108.0 g/m<sup>2</sup></td></tr></table>	Dry film thickness	80 µm	160 µm	Wet film thickness	145 µm	290 µm	Consumption	~0.200 kg/m <sup>2</sup>	~0.400 kg/m <sup>2</sup>	VOC	~54.0 g/m <sup>2</sup>	~108.0 g/m <sup>2</sup>
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<b>Product Temperature</b>	Min. + 5°C												
<b>Relative Air Humidity</b>	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.												
<b>Surface Temperature</b>	Min. + 5°C 0 °C when accelerated with SikaCor® PUR Accelerator.												
<b>Pot Life</b>	At + 10°C ~3 h At + 20°C ~2 h At + 30°C ~1 h												

## Drying Stage 6

	DFT 80 µm	DFT 160 µm	(ISO 9117-5)
+ 5°C after	16 h	20 h	
+ 10°C after	6 h	9 h	
+ 20°C after	4 h	6 h	
+ 40°C after	1 h	1.5 h	

By adding 1 % b.w. SikaCor® PUR Accelerator

	DFT 80 µm	DFT 160 µm	(ISO 9117-5)
+ 5°C after	8 h	10 h	
+ 10°C after	3 h	4 h	
+ 20°C after	2 h	3 h	
+ 40°C after	-	-	

### Waiting Time / Overcoating

At 80 µm dry film thickness SikaCor® PUR Color NEW can be overcoated with itself after drying stage 6 is achieved.

### Drying Time

#### Final drying time

Depending on layer thickness and temperature final hardness is achieved within a few days.

Tests of the completed coat should only be carried out after final curing.

## 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 permanent immersion and condensation the surfaces must be slightly sweep blasted with a ferrite-free blasting abrasive.

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

### MIXING

Stir Component A very thoroughly using an electric stirrer. Add component B and mix both components very thoroughly (including sides and bottom of the container).

### 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 and roller:

- Apply undiluted

#### Airless-spraying:

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

### CLEANING OF TOOLS

Sika® Thinner EG

## BASIS OF PRODUCT DATA

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

#### GISCODE: PU 50

This coding enables additional information and help with the creation of operating instructions (WINGIS online) to be obtained on the BG Bau service pages ([www.gisbau.de](http://www.gisbau.de)).

## DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type Sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of SikaCor® PUR Color NEW is < 500 g/l VOC for the ready to use product.

## 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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