

## PRODUCT DATA SHEET

# SikaCor® PUR Color Plus

2-pack polyurethane coating for steel

Made in Germany

### DESCRIPTION

SikaCor® PUR Color Plus is a 2-pack, silky mat corrosion protection coating based on aliphatic polyurethane containing zinc phosphate as an active pigment. Suitable for dry film thickness of 80 - 160 µm per layer.

### USES

SikaCor® PUR Color Plus 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 suitable for as direct to metal coating and for work-shop application.

### CHARACTERISTICS / ADVANTAGES

- 1-coat system directly on steel
- Broad range of dry film thicknesses per coat from 60 - 160 µm
- UV- and weather resistant
- Tough-elastic and solid, non-brittle
- Shock and impact resistant
- Excellent chemical resistance
- Fast curing, even at low temperatures

### APPROVALS / CERTIFICATES

- Test reports according to ISO 12944-6, corrosivity categories C2 high and C3 high are available

### PRODUCT INFORMATION

<b>Packaging</b>	SikaCor® PUR Color Plus	30 kg net.
	Sika® Thinner EG	25 l, 10 l and 3 l
<b>Appearance and 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.	
<b>Density</b>	~1.2 kg/l	
<b>Solid content</b>	~65 % by volume	
	~75 % 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>Temperature resistance</b>	Dry heat up to approx. + 150°C, short term up to + 200 °C. High temperature may lead to strong colour deviations.

## SYSTEM INFORMATION

<b>System</b>	<b>Steel</b>  1 - 2 x SikaCor® PUR Color Plus Used as top coat on 2-pack primers e.g.: <ul style="list-style-type: none"><li>▪ SikaCor® ZP Primer</li><li>▪ SikaCor® EP Primer</li><li>▪ SikaCor® EG-1 Plus</li><li>▪ SikaCor® EG Phosphat Plus</li></ul> <b>Hot dip galvanized steel</b>  1 x SikaCor® EG-1 1 x SikaCor® PUR Color Plus  For certain colour shades an additional coat may be necessary to obtain full opacity.
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## APPLICATION INFORMATION

<b>Mixing ratio</b>	Components A : B		
	By weight *	92 : 8	
	* The volumetric mixing ratio may vary depending on the colour shade. Please refer to us if needed.		
<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:		
	Dry film thickness	80 µm	160 µm
	Wet film thickness	123 µm	246 µm
	Consumption	~0.148 kg/m <sup>2</sup>	~0.295 kg/m <sup>2</sup>
	VOC	~37 g/m <sup>2</sup>	~74 g/m <sup>2</sup>
<b>Material 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		
<b>Pot Life</b>	At + 10°C	~4 h	
	At + 20°C	~2 h	
	At + 30°C	~1 h	
<b>Drying stage 6</b>	<b>DFT 80 µm</b>	<b>DFT 160 µm</b>	(ISO 9117-5)
	+ 5°C after	16 h	20 h
	+ 10°C after	6 h	10 h
	+ 20°C after	3 h	5 h
	+ 40°C after	1 h	1.5 h

## Waiting time to overcoating

**Min.:** Until drying stage 6 is achieved.

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.

**Max.:** Unlimited

Prior to further applications possible contamination must be removed.

## 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.

## 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.

### 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 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 EQUIPMENT

Sika® Thinner EG

## 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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#### PRODUCT DATA SHEET

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