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BUILDING TRUST
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PRODUCT DATA SHEET

SikaCor® PUR Color Plus

Future name: Acrolon® PUR Color Plus

2-pack polyurethane coating for steel

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 and galvanized 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

Packaging	SikaCor® PUR Color Plus	30 kg net.
	Sika® Thinner EG	25 l, 10 l and 3 l
Appearance and colour	RAL colour shades Slight colour deviations are possible due to raw material characteristics.	
Shelf life	2 years	
Storage conditions	In originally sealed containers in a cool and dry environment.	
Density	~1.2 kg/l	
Solid content	~65 % by volume ~75 % by weight	

TECHNICAL INFORMATION

Chemical resistance	Weathering, increased humidity and short term exposure to de-icing salts, acid and lye vapours, oils, grease, fuels, solvents.
Temperature resistance	Dry heat up to approx. + 150°C, short term up to + 200 °C. High temperature may lead to strong colour deviations.

SYSTEM INFORMATION

System

Steel
1 - 2 x SikaCor® PUR Color Plus
Used as top coat on 2-pack primers e.g.:
- SikaCor® ZP Primer
- SikaCor® EP Primer
- SikaCor® EG-1 Plus
- SikaCor® EG Phosphat Plus

Hot dip galvanized steel
1 x SikaCor® PUR Color Plus

For certain colour shades an additional coat may be necessary to obtain full opacity.

APPLICATION INFORMATION

Mixing ratio

	Components A : B
By weight *	92 : 8

* The volumetric mixing ratio may vary depending on the colour shade. Please refer to us if needed.

Thinner

Sika® Thinner EG
If necessary max. 3 % Sika® Thinner EG may be added to adapt the viscosity.

Consumption

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/m²	~0.295 kg/m²
VOC	~37 g/m²	~74 g/m²

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. + 5°C

Pot Life

At + 10°C	~4 h
At + 20°C	~2 h
At + 30°C	~1 h

Drying stage 6

(ISO 9117-5)

	DFT 80 µm	DFT 160 µm
+ 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 film thickness and temperature full hardness is achieved After 1-2 weeks. 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 basedon laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding SafetyData Sheets (SDS) before using any products. The SDSprovides information and advice on the safe handling,storage and disposal of chemical products and con- tains 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:
Free from dirt, oil, grease and corrosion products. The surfaces must be slightly sweep blasted with a ferrite- free blasting abrasive.

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 com- ponents very thoroughly (including sides and bottom of the container). Mix for at least 3 minutes until a ho-mogeneous mixture is achieved. Fill mixed material in-to clean container and mix again shortly as described above. During mixing and handling of the materials al-ways wear protective goggles, suitable gloves and oth-er 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 onsite 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 recommend-dations 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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