

# PRODUCT DATA SHEET

## Sika Poxicolor® SW

Mechanically resistant epoxy resin coating with low solvent content

Made in Germany

### DESCRIPTION

Abrasion resistant, economically 2-pack coating based on epoxy resin.  
Low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

### USES

Sika Poxicolor® SW may only be used by experienced professionals.

Tough hard, easily applied high-build system.  
Corrosion protection for hydraulic steel structures (flood gates, steel sheet piles etc.), where a mechanically resistant coating is required.  
Also suitable as a fast curing single layer system of low solvent content for the corrosion protection of steel constructions (workshop application).

### CHARACTERISTICS / ADVANTAGES

- High-build application with dry film thicknesses up to 200 µm per coat
- Tough hard, abrasion resistant
- Low solvent content
- Tar-free
- Quick curing

### APPROVALS / CERTIFICATES

- Approved as coating for high tensile bolt connections and according to ISO 12944.

### PRODUCT INFORMATION

<b>Packaging</b>	Sika Poxicolor® SW	15 kg net.
	Sika® Thinner S	25 l, 10 l and 3 l
	SikaCor® Cleaner	160 l and 25 l
<b>Appearance and colour</b>	Black, redbrown, approx. RAL 7032, approx. RAL 9002. Other colour shades upon request.	
	In case of exposure to weathering Sika Poxicolor® SW tends to chalking and yellowing. In case of higher demands to colour retention, SikaCor® EG-4 or SikaCor® EG-5 respectively are recommended as top coats. 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>	~1.5 kg/l	

Solid content ~83 % by volume  
~91 % by weight

## TECHNICAL INFORMATION

**Chemical resistance** Permanently resistant to industrial and marine atmosphere, water, waste water, seawater, neutral salts, mineral oils, fuels, grease, oil, detergents etc.

**Temperature resistance** Dry heat up to approx. + 100°C  
Damp heat and warm water up to approx. + 40°C

## SYSTEM INFORMATION

**System** 1 - 3 x Sika Poxicolor® SW, depending on exposure.  
In case of filigree constructions an additional application is recommended.  
If necessary prime steel with SikaCor® Zinc R, galvanized or stainless steel with SikaCor® EG-1.

## APPLICATION INFORMATION

<b>Mixing ratio</b>		Components A : B	
	By weight	82 : 18	
<b>Thinner</b>	Sika® Thinner S If necessary max. 3 % Sika® Thinner S may be added to adapt the viscosity.		
<b>Consumption</b>	Theoretical material-consumption/coverage without loss for medium dry-film thickness:		
	Dry film thickness	200 µm	
	Wet film thickness	240 µm	
	Consumption	~0.360 kg/m <sup>2</sup>	
Coverage	~2.80 m <sup>2</sup> /kg		
<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. 0°C		
<b>Pot Life</b>	At + 20°C	~1.5 h	
	At + 30°C	~1 h	
<b>Drying stage 6</b>		<b>Dry film thickness 200 µm</b>	(ISO 9117-5)
	+ 5 °C after	30 h	
	+ 10 °C after	20 h	
	+ 20 °C after	7 h	
	+ 40 °C after	2.5 h	
<b>Waiting time to overcoating</b>	Min.: Until drying stage 6 is achieved (see above table). Max.: 3 months In case of longer waiting times please contact us.		
<b>Drying time</b>	<b>Final drying time</b> Depending on layer thickness 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. Average roughness depth  $R_z \geq 50 \mu\text{m}$ .

### 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

#### Airless-spraying:

- Efficient airless equipment
- Pressure min. 180 bar
- Nozzle size 0.42 - 0.53 mm (0.017 - 0.021 inch)
- Spraying angle 40° - 80°
- Diameter of hoses min. 10 mm (¾ inch)

### CLEANING OF EQUIPMENT

SikaCor® Cleaner

## 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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