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BUILDING TRUST
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PRODUCT DATA SHEET

SikaCor® EG Phosphat Rapid

Future name: Macropoxy® EG Phosphat Rapid

Fast curing, high-solid epoxy zinc phosphate primer

DESCRIPTION

SikaCor® EG Phosphat Rapid is a fast curing 2-pack primer based on epoxy resin containing zinc phosphate.
Low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

USES

SikaCor® EG Phosphat Rapid may only be used by experienced professionals.

Designed as fast curing primer for steel surfaces exposed to atmospherical conditions.
In combination with 2-pack intermediate and top coats SikaCor® EG Phosphat Rapid is a mechanical resistant coating system for rural, urban, industry and sea atmosphere according to 'DIN EN ISO 12944-2.

CHARACTERISTICS / ADVANTAGES

- Excellent corrosion protection due to active anti-corrosion pigments
- Overcoatable at low temperatures down to - 10 °C
- Fast overcoatable
- Dry film thickness up to 120 µm per layer

APPROVALS / CERTIFICATES

- Approved according to German standard 'TL-KOR-Stahlbauten, Blatt 97.

PRODUCT INFORMATION

Packaging	SikaCor® EG Phosphat Rapid	28.5 kg net.
	Sika® Thinner EG	25 l, 10 l and 3 l
	SikaCor® Cleaner	160 l and 25 l
Appearance and colour	Sand yellow approx. RAL 1002, mat.-no. 697.02 Redbrown approx. RAL 8012, mat.-no. 697.06	
Shelf life	3 years	
Storage conditions	In original sealed containers in a cool and dry environment.	
Density	~1.6 kg/l	
Solid content	~57 % by volume ~79 % by weight	

TECHNICAL INFORMATION

Chemical resistance

Combined with 2-pack epoxy intermediate coats and 2-pack PUR top coats:
Weather, water, sewage, seawater, smoke, de-icing salts, acid and lye vapours, oils, grease and short term exposure to fuels and solvents.

Temperature resistance

Dry heat up to + 150 °C, short term up to + 200°C
In case of higher temperatures please contact us.

SYSTEM INFORMATION

System

Steel:
1 - 2 x SikaCor® EG Phosphat Rapid

Suitable intermediate and top coats:
2-pack top coats of the SikaCor® and Sika® Permacor® range.

APPLICATION INFORMATION

Mixing ratio

	Components A : B
By weight	94.7 : 5.3
By volume	9.2 : 1

Thinner

Sika® Thinner EG
If necessary, max. 5% 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
Wet film thickness	140 µm
Consumption	~0.225 kg/m²
VOC	~47 g/m²

With SikaCor® EG Phosphat Rapid up to 120 µm dry film thickness per application can be achieved by airless spraying.

Material temperature

Min. + 0°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. - 10°C

Pot Life

At + 10°C	~8 h
At + 20°C	~5 h
At + 30°C	~2 h

Drying stage 6 (ISO 9117-5)

	Dry film thickness 80 µm
+ 0°C after	10 h
+ 5°C after	5 h
+ 10°C after	4 h
+ 20°C after	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. 1 year
In case of longer waiting times please contact us.

	Prior to further applications: After a waiting period or after exposure to weathering, all possible contamination must be removed from the surface before the subsequent coating is applied.
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 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 DIN EN ISO 12944-4.
Free from dirt, oil and grease.

For contaminated and weathered surfaces, we recommend to clean with SikaCor® Wash.

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 clothing.

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

Conventional high pressure spraying:
- Nozzle size 1.5 - 2.5 mm
- Pressure 3 - 5 bar
- Oil and water trap is compulsory

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

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 recommenddations 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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