

PRODUCT DATA SHEET

SikaCor[®] EG Phosphat Rapid

Fast curing, high-solid epoxy zinc phosphate primer

PRODUCT DESCRIPTION

SikaCor EG Phosphat Rapid is a fast curing solvent-borne 2-pack primer based on epoxy resin.

Low solvent content referring to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04)

USES

SikaCor EG Phosphat Rapid is 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 12944-5'.

PROPERTIES

- Very good corrosion protection through active anticorrosive pigment
- Overcoatable at low temperatures down to – 10 °C
- Fast overcoatable
- Dry film thickness up to 120 µm per layer

TESTS

APPROVAL / STANDARDS

SikaCor EG Phosphat Rapid is approved according to German standard 'TL/TP-KOR- Stahlbauten', page 97.

PRODUCT DATA

COLOUR SHADES

Sand-yellow
Red-brown

approx. RAL 1002 and
approx. RAL 8012.

Slight colour deviations are possible due to raw material characteristics.

PACKAGING

SikaCor EG Phosphat Rapid:	28.5 kg net.
Sika Thinner EG:	25, 10 and 3 litres
SikaCor Cleaner:	25, 160 litres

SHELF LIFE

In original sealed containers in a cool and dry environment: 3 years

SYSTEMS

COATING SYSTEMS

Steel:

1 - 2 x SikaCor EG Phosphat Rapid

Suitable intermediate and top coats:

In combination with 2-pack topcoats from our SikaCor and Sika Permacor range.

SURFACE PREPARATION

Steel:

Blast cleaning to Sa 2 ½ according to DIN EN ISO 12944, part 4.

Free from dirt, oil and grease.

TECHNICAL DATA

MATERIAL CONSUMPTION

Product	Specific gravity liquid approx. kg/L	Solids content approx. %		Theoretical material-consumption/VOC without loss for medium dry film thickness			
		by vol.	by weight	dry microns	wet microns	approx. kg/m ²	VOC approx. g/m ²
SikaCor EG Phosphat Rapid	1.6	57	79	80	140	0.225	47.2

Up to 120 microns dry film thickness can be achieved by airless spraying.

MIXING RATIO

(COMPONENTS A : B)

By weight

94.7 : 5.3

By volume

9.2 : 1

RESISTANCE

CHEMICAL RESISTANCE

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 + 100°C, short term up to +150°C.

In case of higher temperatures please consult Sika.

HINTS OF APPLICATION

MIXING INSTRUCTIONS/ MIXING TIME

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 METHOD

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 and by brush. 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.

APPLICATION METHOD
(CONTINUATION)

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:

With a spray pressure in gun of min. 180 bar;

Nozzle size 0.38 - 0.53 mm (0.015 - 0.021 inch); spray angle 40°- 80°.

APPLICATION CONDITIONS

Material: Min. 0 °C

Surface: Min. - 10 °C

Relative 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.

If necessary max. 5% Sika Thinner EG may be added to adapt the viscosity.

The surface must be dry and free from ice.

POTLIFE

At + 10°C approx. 8 hours

At + 20°C approx. 5 hours

At + 30°C approx. 2 hours

DRYING STAGE 6 (EN ISO 9117-5)

Product	Dry film thickness	+ 0°C after	+ 5°C after	+ 10°C after	+ 20°C after
SikaCor EG Phosphat Rapid	80 µm	10 h	5 h	4 h	1.5 h

For spray application: The dry film thickness of the primer coat does not respect the correction factors on rough surfaces according to ISO 19840.

WAITING TIME BETWEEN COATS

Min.: until drying degree 6 is achieved

Max.: 1 year

In case of longer waiting times please contact Sika.

SikaCor EG Phosphat Rapid cures also at low temperatures below 0 °C. The revision intervals delayed significantly and have to be determined on site.

Make sure that all contamination is removed before overcoating with topcoats (see page 2 surface preparation).

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.

THINNER

Sika Thinner EG

CLEANING OF EQUIPMENT

SikaCor Cleaner

IMPORTANT NOTICE

DIRECTIVE 2004/42/EC (DECOPAINT)

For product category IIA / j, Type SB, the maximum permissible content of VOC as per directive 2004/42/EC is 500 g/litre (limit 2010).

The maximum content of SikaCor EG Phosphat Rapid remains below 500 g/litre VOC.

VALUE BASE

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

HEALTH AND SAFETY INFORMATION

GISCODE: RE 3

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).

Skin contact with epoxy resins can lead to allergies!

Avoid direct skin contact at all costs when handling epoxy resins!

For the selection of suitable protective equipment, we have made our information data sheets 7510 'General notes on occupational safety' and 7511 'General notes for wearing protective gloves' available at www.sika.de. In conjunction with this we also recommend the BG Bau service pages for information regarding the handling of epoxy resins (www.gisbau.de/service/epoxi/epoxi.htm).

Information on the safe handling of chemical products, as well as the essential physical, safety-related, toxicological and ecological data can be found in the current safety data sheets. Observe all relevant regulations, e.g. the hazardous substances act. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

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. The most recent product data sheet applies. This can be requested from us or is available to download at www.sika.de. Please check availability of local product data sheet at your local website. In cases of doubt the German text is valid.

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English
Corrosion Protection