BUILDING TRUST

PRODUCT DATA SHEET

SikaCor® EG-120

LOW SOLVENT POLYURETHANE TOP COAT - DIRECT APPLICATION ON STEEL, GALVANIZED STEEL AND ALUMINIUM

PRODUCT DESCRIPTION

2-pack polyurethane top coat with excellent chalking resistance and colour retention.
By adding 1% b.w. SikaCor® PUR Accelerator (see product data sheet for more information) a faster touch-drying and full curing will be achieved.
Low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

USES

SikaCor® EG-120 may only be used by experienced professionals.
Multifunctional corrosion protection top coat providing a decorative effect.
Mainly for bridges, pipe lines, containers, industrial and harbour installations, sewage treatment plants and large machinery; submerged or non-submerged in industrial or marine environments.
As a 1-coat system particularly suited for steel constructions indoors, for workshop application as heavy duty travel coat system.

CHARACTERISTICS / ADVANTAGES

- High volume solids and low solvent content
- High-build application with dry film thicknesses up to 120 microns
- Excellent adhesion on steel, galvanized steel and aluminium as 1-coat system
- Excellent weather resistance

APPROVALS / STANDARDS

- Approved according to ISO 12944-6 on steel and hot-dip galvanized steel surfaces.

PRODUCT INFORMATION

Packaging	SikaCor® EG-120 (RAL)	30 kg and 10 kg net.
	SikaCor® EG-120 (DB)	15 kg net.
	Sika® Thinner EG	25 l, 10 l and 3 l
Appearance / Colour	RAL and Mio (DB)-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	SikaCor® EG-120(RAL)	~1.3 kg/l
	SikaCor® EG-120 (DB)	~1.6 kg/l

Solid Content	SikaCor® EG-120 (RAL)	~70 % by volume ~80 % by weight
	SikaCor® EG-120 (DB)	~70 % by volume ~83 % by weight

TECHNICAL INFORMATION

Chemical Resistance	Weather conditions in rural, urban and industrial atmosphere. Water, sewage, sea water, dew salts, oil, grease and short term contact with gasoline and solvents.
Thermal Resistance	Dry heat up to + 120°C, short term up to + 150°C Damp heat up to approx. + 50°C

SYSTEM INFORMATION

Systems	Steel: 1 x SikaCor® EG-120 tested to corrosivity category C2 high, acc. to ISO 12944-6 Galvanized steel: 1 x SikaCor® EG-120 tested to corrosivity category C4 high, acc. to ISO 12944-6

APPLICATION INFORMATION

Mixing Ratio

		Components A : B
By weight	85 : 15 (RAL)	90 : 10 (DB)

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:

SikaCor® EG-120 RAL-colour shades

Dry film thickness	80 µm	120 µm
Wet film thickness	115 µm	170 µm
Consumption	0.149 kg/m²	0.223 kg/m²
VOC	29.7 g/m²	44.6 g/m²

SikaCor® EG-120 DB-colour shades

Dry film thickness	80 µm	120 µm
Wet film thickness	115 µm	170 µm
Consumption	0.183 kg/m²	0.274 kg/m²
VOC	31.1 g/m²	46.6 g/m²

Product 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 of ice.	
Surface Temperature	Min. + 5°C 0°C by adding SikaCor® PUR Accelerator	
Pot Life	At + 10°C	~3 h
	At + 20°C	~2 h
	At + 30°C	~1 h

Drying Stage 6		**Dry film thickness 80 µm**	**Dry film thickness 120 µm**	(ISO 9117-5)
	+ 5°C after	20 h	25 h	
	+ 20°C after	9 h	11 h	
	+ 40°C after	2 h	3 h	

Waiting Time / Overcoating	Between SikaCor® EG-120 and SikaCor® EG-120: Min. 11 h at + 20°C Max. 1 year In case of longer waiting times please contact Sika. Prior to further applications possible contamination must be removed (see page 3 'surface preparation').
Drying time	**Final drying time** Depending on layer thickness and temperature full hardness is achieved within 1 - 2 weeks.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Steel:
Blast-cleaning to Sa 2 ½ according to ISO 12944, part 4.
Free from dirt, oil and grease.

Galvanized steel, stainless steel and aluminium:
Free from dirt, oil, grease and corrosion products.
In case of exposure to permanent condensation the surfaces must be slightly sweep blasted with a ferrite-free blasting abrasive.

For contaminated surfaces e.g. galvanized or primed areas 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 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:
In order to achieve an attractive appearance in case of coatings containing micaceous iron oxide it is recommended to spray apply the last top coat or to brush or roll on in one direction only to avoid streaking.

Conventional high pressure spraying:
- Nozzle size 1.5 - 2.5 mm
- Pressure 3 - 5 bar

Airless-spraying:
- Pressure min. 180 bar
- Nozzle size 0.38 - 0.53 mm (0.015 - 0.021 inch)
- Spraying angle 40° - 80°

CLEANING OF TOOLS

Sika® Thinner EG

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

GISCODE: PU 50
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).

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type Sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of SikaCor® EG-120 is < 500 g/l VOC for the ready to use product.

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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