

PRODUCT DATA SHEET

SikaCor® EG-120

Low solvent polyurethane top coat - direct application on steel, galvanized steel and aluminium

Made in Germany

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.

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 and 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.	

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / CERTIFICATES

- Approved according to ISO 12944-6 on steel and hot-dip galvanized steel surfaces.
- Test reports according to ISO 12944-6, corrosivity categories C4 high and C5 high are available.

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.
Temperature resistance	Dry heat up to + 150°C, short term up to + 200°C Damp heat up to approx. + 50°C An exposure to high temperatures can lead to color changes.

SYSTEM INFORMATION

System	<p>Steel 1 x SikaCor® EG-120</p> <p>or</p> <p>Used as a top coat on 2-pack primer and intermediate coats of the SikaCor® and Sika® Permacor® product range.</p> <p>Hot-dip galvanized steel, aluminium and stainless steel 1 x SikaCor® EG-120</p> <p>In case of light colours a second topcoat of SikaCor® EG-120 may become necessary to achieve perfect opacity.</p>
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APPLICATION INFORMATION

Mixing ratio		Components A : B	Components A : B
	By weight	85 : 15 (RAL)	90 : 10 (DB)
	The volumetric mixing ratio may vary depending on the colour shade. Please refer to Sika, if needed.		
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/m ²	0.223 kg/m ²
	VOC	30 g/m ²	45 g/m ²
	SikaCor® EG-120 DB-colour shades		
	Dry film thickness	80 µm	120 µm
	Wet film thickness	115 µm	170 µm
	Consumption	0.183 kg/m ²	0.274 kg/m ²
	VOC	31 g/m ²	47 g/m ²
	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 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	
	By adding 1 % b.w. SikaCor® PUR Accelerator:			
	At + 10°C		~1.5 h	
At + 20°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	
	By adding 1 % b.w. SikaCor® PUR Accelerator:			
		Dry film thickness 80 µm	Dry film thickness 120 µm	(ISO 9117-5)
	+ 10°C after	12 h	15 h	
	+ 20°C after	4 h	5 h	
	Waiting time to overcoating	Min.: until drying stage 6 is achieved Max. 1 year In case of longer waiting times please contact us. Prior to further applications possible contamination must be removed.		
	Drying time	Final drying time Depending on layer thickness and temperature full hardness is achieved within 1 - 2 weeks.		

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.

Hot dip galvanized steel, stainless steel, 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,

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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 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 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

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Data Sheet for the product concerned, copies of which will be supplied on request.

SikaCorEG-120-en-DE-(02-2022)-5-1.pdf