BUILDING TRUST

PRODUCT DATA SHEET
SikaCor® EG-5 Gloss

Glossy 2-pack polyurethane top-coat

PRODUCT DESCRIPTION

SikaCor EG-5 Gloss is a 2-pack, weather resistant top coat for primed steel offering also very good weather resistance and providing a glossy, smooth surface.

USES

Tough, durable corrosion protection top coat for steel and galvanized areas. Versatile suitable e.g. for steel constructions, bridges, pipes, containers, industrial and harbour installations in severe surrounding up to corrosion category C5-M/I according to DIN EN ISO 12944.

PROPERTIES

- Excellent weather resistance and colour retention
- High gloss retention
- Scratch and shock resistant

TESTS

APPROVAL / STANDARDS

Fulfills Bayer factory specification WN 2207

PRODUCT DATA

COLOUR SHADES

DB, RAL, NCS colour shades, further colour shades upon request

Slight colour deviations are possible due to raw material characteristics.

PACKAGING

SikaCor EG-5 Gloss:	30 kg net.
Sika Thinner EG:	25, 10 and 3 litres

SHELF LIFE

In originally sealed containers in a cool and dry environment: min. 2 years.

SYSTEMS

COATING SYSTEMS

<u>Steel:</u>
1 x SikaCor Zinc R or SikaCor EG Phosphat
1 x SikaCor EG-1
1 x SikaCor EG-5 Gloss

<u>Galvanized surfaces and aluminium:</u>
1 x SikaCor EG-1
1 x SikaCor EG-5 Gloss

SURFACE PREPARATION

Steel:
Blast cleaning to Sa 2 ½ according to DIN EN 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 permanent immersion and condensation the surfaces must be slightly sweep blasted with a ferrite-free blasting abrasive.

TECHNICAL DATA

MATERIAL CONSUMPTION

Product	Specific gravity liquid	Solids content approx. %		Theoretical material-consumption/VOC without loss for medium dry film thickness			
	approx. kg/L	by vol.	by weight	dry microns	wet microns	approx. kg/m²	VOC approx. g/m²
SikaCor EG-5 Gloss	1.3	59	72	60 80	100 135	0.210 0.175	37.0 49.4

MIXING RATIO

(COMPONENTS A : B)

By weight 85 : 15

By volume 4.7 : 1

RESISTANCE

CHEMICAL RESISTANCE

Industrial and marine atmospheres, weather, water, sewage, seawater, de-icing salts, oils, fats and short term exposure to fuels and solvents.

HINTS OF APPLICATION

PREPARATION OF MATERIAL

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.

By brush and roller:
Lower dry film thicknesses are achieved, approx. 60 µm per application step.

Conventional high pressure spraying / conventional spraying:
nozzle size 1.7 - 2.5 mm; pressure 3 - 5 bar.

Airless-spraying:
With a spray pressure of min. 180 bar; diameter of hoses min. 8 mm (⅜ inch) nozzle size 0.33 - 0.43 mm (0.013 - 0.017 inch); spray angle 40° - 80°.

APPLICATION CONDITIONS

Min. + 5 °C (material and surface)
Surface: 0 °C when accelerated with SikaCor PUR Accelerator.

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 + 20°C approx. 4 hours

DRYING STAGE 6 (EN ISO 9117-5)

Product	Dry film thickness	+ 5°C after	+ 10°C after	+ 20°C after	+ 30°C after
SikaCor EG-5 Gloss	80 µm	32 h	28 h	16 h	8 h

WAITING TIME BETWEEN COATS

Product	Dry film thickness	+ 5°C after	+ 10°C after	+ 20°C after	+ 30°C after
SikaCor EG-5 Gloss	80 µm	32 h	28 h	16 h	8 h

FINAL DRYING TIME

Depending on layer thickness and temperature final hardness is achieved within 1 - 2 weeks.

THINNER AND CLEANING OF EQUIPMENT

Sika Thinner EG

IMPORTANT NOTICE

DIRECTIVE 2004/42/EC (DECOPAINT)

For the product category IIA / j, Type Sb, the maximum permissible content of VOC according to the EU-Directive 2004/42/EC is 500 g/litre (limit 2010).

The maximum VOC-value of SikaCor EG-5 Gloss is below 500 g/litre.

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: 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).

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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