BUILDING TRUST

PRODUCT DATA SHEET

SikaCor® EG-5

2-PACK AY-PUR TOP COAT

DESCRIPTION

SikaCor® EG-5 is a 2-pack acrylic polyurethane silky gloss top coat.
By adding 1% b.w. SikaCor® PUR Accelerator (see product data sheet for more information) a fast touch and through drying will be achieved.

USES

SikaCor® EG-5 may only be used by experienced professionals.
In combination with 2-pack primer and intermediate coats of the SikaCor® and Sika® Permacor® product range for heavy duty corrosion protection of steel structures and is also suitable for protective coated submerged steel.

CHARACTERISTICS / ADVANTAGES

Combined with 2-pack epoxy primer and intermediate coats:
- Very good corrosion protection properties
- Excellent chemical, weather and colour stability
- Tough elastic and hard but not brittle
- Largely insensitive against shock and impact

APPROVALS / CERTIFICATES

- Approved according to German standard 'TL/TP-KOR-Stahlbauten', page 87 and page 94.
- In combination with SikaCor® PUR Accelerator, SikaCor® EG-5 is approved according to German standard 'TL/TP-KOR-Stahlbauten', page 97.

PRODUCT INFORMATION

Packaging	SikaCor® EG-5	30 kg, 10 kg and 3 kg* net.
	Sika® Thinner EG	25 l, 10 l and 3 l
	SikaCor® Cleaner	160 l and 25 l
	* Purchase of individual 3 kg containers in variety of colours is possible through specialized wholesailers.	
Appearance / Colour	RAL colour shades mat.-Nr. 687.75 - 687.99, NCS colour shades, others upon request.	
Shelf life	2 years	
Storage conditions	In originally sealed containers in a cool and dry environment.	
Density	~1.3 kg/l	
Solid content	~61 % by volume ~74 % by weight	

TECHNICAL INFORMATION

Chemical Resistance	Weather, water, sewage, seawater, smoke, de-icing salts, acid and lye vapours, oils, grease and short term exposure to fuels and solvents.

Thermal Resistance

Dry heat up to + 150°C, short term up to + 180°C
Damp heat up to approx. + 50°C
In case of higher temperatures please consult Sika.

SYSTEM INFORMATION

System

Steel:
Used as a top coat on 2-pack primer and intermediate coats of the SikaCor® and Sika® Permacor® product range.

Hot dip galvanized steel, stainless steel and aluminium:
1 x SikaCor® EG-1 or SikaCor® EG-1 VHS
1 x SikaCor® EG-5

In case of light colours a second topcoat of SikaCor® EG-5 may become necessary to achieve perfect opacity.

APPLICATION INFORMATION

Mixing Ratio

	Components A : B
By weight	90 : 10
By volume	7.1 : 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	60 µm	80 µm
Wet film thickness	100 µm	130 µm
Consumption	~0.130 kg/m²	~0.170 kg/m²
VOC	~33.2 g/m²	~44.3 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 from ice.

Surface Temperature

Min. + 5°C
0°C by adding SikaCor® PUR Accelerator

Pot Life

At + 10°C	~7 h	~5 h *
At + 20°C	~5 h	~3 h *
At + 30°C	~4 h	~2 h *

* By adding 1 % b.w. SikaCor® PUR Accelerator

Drying Stage 6

	Dry film thickness 80 µm
+ 5°C after	21 h
+ 10°C after	18 h
+ 20°C after	14 h
+ 40°C after	3 h
+ 80°C after	45 min

(ISO 9117-5)

By adding 1% b.w. SikaCor® PUR Accelerator:

	Dry film thickness 80 µm
0°C after	52 h
+ 5°C after	18 h
+ 10°C after	13 h
+ 20°C after	5 h

(ISO 9117-5)

Waiting Time / Overcoating	Min.: until drying stage 6 is achieved Max.: unlimited Prior to further applications possible contamination must be removed (see page 3 surface preparation).
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.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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

Hot dip 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 non-ferrous abrasives.

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

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 TOOLS

SikaCor® Cleaner
Spraying equipment must be rinsed with Sika® Thinner EG before using SikaCor® EG-5.

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.

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.

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. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

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-5 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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