PRODUCT DATA SHEET
SikaCor® EG-5

2-pack colour-fast polyurethane topcoat

PRODUCT DESCRIPTION
SikaCor® EG-5 is a 2-pack topcoat based on polyurethane with good gloss and colour retention.

USES
For heavy duty corrosion protection of submerged concrete and steel structures.

CHARACTERISTICS / ADVANTAGES
- Very good corrosion protection
- Excellent chemical, weather and colour stability
- Tough elastic and dense but not brittling
- Usually insensitive against shock and impact

TESTS

APPROVAL / STANDARDS
SikaCor EG-5 is approved according to German standard 'TL/TP-KOR-Stahlbauten', page 87 and page 94.
PRODUCT DATA

FORM

COLOURS
Grey, other colour shades on request.

PACKAGING
30 kg pail

STORAGE

STORAGE CONDITIONS / SHELF-LIFE
24 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost.

MECHANICAL / PHYSICAL PROPERTIES

CHEMICAL RESISTANCE
Weather, water, sewage, seawater, smoke, de-icing salts, acid, alum (such as hydrated potassium aluminium sulphate) and lye vapours, oils, grease and short term exposure to fuels and solvents.

TEMPERATURE 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 our Technical Services Department.

SYSTEM INFORMATION

APPLICATION DETAILS

COATING STRUCTURES
Concrete:
Primer: 1 x SikaFloor® 156
Intermediate Coat: 1 x Sikalastic® 841ST
Top Coat: 1 x SikaCor® EG-5

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

Galvanized steel, stainless steel and aluminium:
Primer: 1 x SikaCor EG-1 or SikaCor EG-1 VHS
Top Coat: 1 x SikaCor EG-5
In case of light colours, a second topcoat of SikaCor EG-5 may become necessary to achieve perfect opacity.
CONSUMPTION / COVERAGE

<table>
<thead>
<tr>
<th>Product</th>
<th>Specific gravity liquid</th>
<th>Solids content approx. %</th>
<th>Theoretical material-consumption/film thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>approx. kg/ltr by vol.</td>
<td>by weight dry microns</td>
<td>wet microns approx. kg/m²</td>
</tr>
<tr>
<td>SikaCor® EG 5</td>
<td>1.3</td>
<td>59</td>
<td>72</td>
</tr>
</tbody>
</table>

SURFACE PREPARATION

Concrete:
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, SikaDur®, and SikaGard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots must be removed by e.g. grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Steel:
Blast cleaning to Sa 2 ½ according to DIN EN ISO 12 944, part 4.
Free of 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 non-ferrous abrasives.

For contaminated surfaces e.g. galvanized or primed areas we recommend to clean with SikaCor Wash.
**APPLICATION INSTRUCTIONS**

**MIXING RATIO**
Component A : B = 90 : 10 (by weight)

**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 clothings.

**APPLICATION METHOD / TOOLS**
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.

1) By brush and roller

2) By conventional high pressure spraying:
Nozzle size 1.5 - 2.5 mm; pressure 3 - 5 bar, oil and water trap is compulsory.

3) By 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**
Min. + 5 °C (material and surface)
Relative humidity: Max. 85 %, except the surface temperature is significantly higher than the dew point temperature, it shall be at least 3°C above dew point.

If necessary max. 5% Sika Thinner C may be added to adapt the viscosity. The surface must be dry and free from ice.
**DRYING STAGE 6**

(According to EN ISO 9117-5)

<table>
<thead>
<tr>
<th>Product</th>
<th>Dry film thickness</th>
<th>+ 5°C after</th>
<th>+ 10°C after</th>
<th>+ 20°C after</th>
<th>+ 40°C after</th>
<th>+ 80°C after</th>
</tr>
</thead>
<tbody>
<tr>
<td>SikaCor® EG-5</td>
<td>80 microns</td>
<td>21 hours</td>
<td>18 hours</td>
<td>14 hours</td>
<td>3 hours</td>
<td>45 min.</td>
</tr>
</tbody>
</table>

**POTLIFE**

approx. 7 hours (at + 10°C)
approx. 5 hours (at + 20°C)
approx. 4 hours (at + 30°C)

**WAITING TIME BETWEEN COATS**

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

**FINAL DRYING TIME**

Depending on film thickness and temperature, full hardness is achieved after 1-2 weeks.

**CLEANING OF TOOLS**

Clean all tools and application equipment with Sika Thinner C immediately after use. Hardener and/or cured material can only be removed mechanically.
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
For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

FOR MORE PRODUCT NAME® INFORMATION:

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