

PRODUCT DATA SHEET

Sika® Permacor®-2707

EPOXY TOPCOAT FOR STEEL AND CONCRETE

PRODUCT DESCRIPTION

Sika® Permacor®-2707 is a 2-pack epoxy resin topcoat with high mechanical resistance and with excellent chemical resistance to aqueous and alkaline exposure.

USES

Sika® Permacor®-2707 may only be used by experienced professionals.
Sika® Permacor®-2707 is used as a top coat for metal surfaces exposed to extreme interior environments, e.g. for highly exposed structures, pipe work, cladding panels, railings, machines and other facilities.
Sika® Permacor®-2707 is also used as an intermediate coat for walls and ceilings, e.g. in nuclear facilities and in the pharmaceutical industry.

CHARACTERISTICS / ADVANTAGES

- Topcoat with high chemical resistance in RAL-colours

APPROVALS / STANDARDS

- Approved according to the German DIN 55991, part 1 'Coatings for Nuclear Facilities'.
- The coating system is in compliance with the German rules of Foodstuff and Consumer Goods.
- Certified by ISEGA.
- Coating based on epoxy resin for concrete protection according to EN 1504-2, DoP, with CE-mark.

PRODUCT INFORMATION

Packaging	Sika® Permacor®-2707	14 kg net.
	Sika® Thinner E+B	25 l
	SikaCor Cleaner	25 l
Appearance / Colour	RAL colour shades, others on request Finish: High-glossy	
Shelf Life	Min. 2 years	
Storage Conditions	In originally sealed containers in a cool and dry environment.	
Density	~1.3 kg/l	
Solid Content	~50 % by volume ~66 % by weight	

TECHNICAL INFORMATION

Chemical Resistance	Depending on chemical exposure upon request.
Thermal Resistance	Dry heat up to approx. + 120°C, short term up to + 150°C Colour RAL 9006 up to + 180°C

SYSTEM INFORMATION

Systems

Steel:

Suitable as top coat on the following primer coats:

Sika® Permacor®-2305 Rapid

Sika® Permacor®-2311 Rapid

Sika® Permacor®-2315 EG-Rapid

Sika® Permacor®-2706

Sika® Permacor®-2706 EG

Concrete:

2 x Sika® Permacor®-2707

1st coating diluted with 5 % b.w. Sika® Thinner E+B

APPLICATION INFORMATION

Mixing Ratio		Components A : B
	By weight	100 : 33
Thinner	Sika® Thinner E+B If necessary max. 2 % Sika® Thinner E+B may be added to adapt the viscosity.	
Consumption	Theoretical material-consumption/ coverage without loss for medium dry film thickness of:	
	Dry film thickness	40 µm
	Wet film thickness	80 µm
	Consumption	~0.104 kg/m ²
	Coverage	~9.63 m ² /kg
Product Temperature	Min. + 10°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.	
Surface Temperature	Min. + 10°C	
Pot Life	At + 20°C	~12 h
Waiting Time / Overcoating	Waiting time at + 20°C	
	Min.:	after 8 h
	Max.:	upon request
Drying time	Dry film thickness of 40 µm	
	At + 20°C	after 16 h
	Final drying time Full mechanical and chemical resistance after 7 days. When system is intended to be in contact with foodstuffs please allow intense ventilation and assure 7 days drying time at + 20°C.	

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete:

The surfaces to be coated must conform to the building standards and must be capable of bearing loads, firm and free from bond-impairing materials. The average tensile strength of the surface according to DIN 1048 should be at least 1.5 N/mm² and must not fall below the lowest individual value of 1.0 N/mm². In the case of high mechanical loads, the average nominal value is 2.0 N/mm² and the lowest individual value 1.5 N/mm². Suitable preliminary coatings compatible with the system are to be used. The respective rework times must be adhered to.

SURFACE PREPARATION

Steel:

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

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 or roller

Airless-spraying / Airmix-spraying:

- Nozzle size ≥ 0.33 mm (≥ 0.013 inch)

Conventional high pressure spraying:

- Nozzle size ≥ 1.3 mm

CLEANING OF TOOLS

SikaCor® Cleaner

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: RE 3

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).

Skin contact with epoxy resins can lead to allergies!

Avoid direct skin contact at all costs when handling epoxy resins!

For the selection of suitable protective equipment, we have made our information data sheets 7510 'General notes on occupational safety' and 7511 'General notes for wearing protective gloves' available at www.sika.de. In conjunction with this we also recommend the BG Bau service pages for information regarding the handling of epoxy resins (www.bgbau.de/gisbau/fachthemen/epoxi).

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 Sika® Permacor®-2707 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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Product Data Sheet

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