

PRODUCT DATA SHEET

Sika® Permacor®-2707

Epoxy topcoat for steel and concrete

Made in Germany

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 / CERTIFICATES

- Approved according to the German DIN 55991-1 '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 and 5 l
	SikaCor Cleaner	160 l and 25 l
Appearance and colour	RAL colour shades, others on request Finish: High-glossy	
Shelf life	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.
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Temperature resistance

Dry heat up to approx. + 120°C, short term up to + 150°C
 Colour RAL 9006 up to + 180°C

SYSTEM INFORMATION**System**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 (approval for foodstuff)

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/m²

Coverage ~9.63 m²/kg

Material 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 to 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.

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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

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. Cavities, shrinking holes or surface roughness have to be levelled e.g. by Icoment-520 Mortar. The respective rework times must be adhered to.

SURFACE PREPARATION

Steel:

Blast-cleaning to Sa 2 ½ according to ISO 12944-4. 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 EQUIPMENT

SikaCor® Cleaner

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

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