

## PRODUCT DATA SHEET

# Sika® Permacor®-2706

Future name: Macropoxy® 2706

Epoxy intermediate coat for steel and concrete

### DESCRIPTION

Sika® Permacor®-2706 is a 2-pack coating based on epoxy resin with outstanding chemical resistance against aqueous and alkaline load.

### USES

Sika® Permacor®-2706 may only be used by experienced professionals.

Sika® Permacor®-2706 is used as intermediate coat for metal surfaces of closed rooms, e.g. heavy loaded constructions, pipelines, claddings, railings, machines and facilities.

Furthermore, it is suitable as intermediate coat for walls and ceilings in nuclear facilities or in pharmaceutical industry.

### CHARACTERISTICS / ADVANTAGES

- Intermediate coat with high mechanical and chemical resistance

### APPROVALS / CERTIFICATES

- Approved in combination with Sika® Permacor®-2707 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

<b>Packaging</b>	Sika® Permacor®-2706	20 kg net.
	Sika® Thinner E+B	25 l and 5l
	SikaCor® Cleaner	160 l and 25 l
<b>Appearance and colour</b>	Approx. RAL 7032, pebble grey Finish: Glossy	
<b>Shelf life</b>	2 years	
<b>Storage conditions</b>	In originally sealed containers in a cool and dry environment.	
<b>Density</b>	~1.4 kg/l	
<b>Solid content</b>	~48 % by volume ~65 % by weight	

### TECHNICAL INFORMATION

<b>Chemical resistance</b>	Upon request
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## SYSTEM INFORMATION

### System

#### Steel:

Possible primers:

Sika® Permacor®-2305 Rapid

Sika® Permacor®-2311 Rapid

Intermediate coat:

1 x Sika® Permacor®-2706 (approval for foodstuff)

Top coat:

1 x Sika® Permacor®-2707\* (approval for foodstuff)

#### Concrete / cementitious rendering:

1 x Sika® Permacor®-2706 diluted with 5 % Sika® Thinner E+B

1 x Sika® Permacor®-2706

1 x Sika® Permacor® 2707\*

\*Alternative topcoat: Sika® Permacor®-2330 (no approval for foodstuff)

## APPLICATION INFORMATION

### Mixing ratio

By weight

Components A : B

100 : 25

### 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	85µm
Consumption	~0.117 kg/m <sup>2</sup>
Coverage	~8.58 m <sup>2</sup> /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

~8 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

Depending on film thickness and temperature full hardness is achieved within 1 week. Tests of the completed coating system should only be carried out after final curing.

When system is intended to be in contact with foodstuffs please allow intense ventilation and assure 7 days drying time at + 20°C.

## 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/mm<sup>2</sup> and must not fall below the lowest individual value of 1.0 N/mm<sup>2</sup>. In the case of high mechanical loads, the average nominal value is 2.0 N/mm<sup>2</sup> and the lowest individual value 1.5 N/mm<sup>2</sup>. 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:

- Nozzle size  $\geq$  0.33 mm

#### Airmix-spraying:

- Nozzle size  $\geq$  0.33 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 Sherwin-Williams` products, are given in good faith based on Sherwin-Williams` current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sherwin-Williams` 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. Sherwin-Williams 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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