

PRODUCT DATA SHEET

Sika® Poxitar® F

HEAVY DUTY EPOXY ANTHRACENE OIL COMBINATION COATING FOR STEEL AND CONCRETE

DESCRIPTION

Resistant 2-pack reaction hardening coating of low solvent content based on a epoxy-anthracene-oil combination with mineral fillers. Reference to BS 5493: KF 3 B respectively KF 3 D (two pack chemical resistant finishes).

USES

Sika® Poxitar® F may only be used by experienced professionals.

Suitable for concrete and steel, especially in case of application onto damp surfaces; also as an internal and external coating for buried and submerged structures, e.g. sewage systems, chemical industry etc. Not suitable for surfaces in contact with drinking water, housing, stables etc.

CHARACTERISTICS / ADVANTAGES

PRODUCT INFORMATION

Packaging	Component A + B	10 kg per set
	Component A	8.50 kg pail
	Component B	1.50 kg pail
Appearance / Colour	Black	
Shelf life	Min. 12 months if stored in original, unopened container	
Storage conditions	Dry, cool, shaded place	

TECHNICAL INFORMATION

CHEMICAL RESISTANCE Sika® Poxitar® F is resistant to water, seawater, barnacles, diluted acids and lyes, neutral salts, mineral and heating oils, rich oils, detergents etc. Not resistant to longer exposure to benzene-hydrocarbons and tar oil.

Thermal Resistance Dry heat up to +100 °C; damp heat and hot water up to approx. +60 °C, short term exposure up to max. +80 °C. Not resistant to hot water exposure in case of significant differential of temperature gradient.

SYSTEM INFORMATION

Systems

Coating systems

Concrete and steel: 2 - 3 x Sika® Poxitar® F

Properties:

After complete curing Sika® Poxitar® F is tough hard, robust abrasion and impact resistant; excellent resistance to water, microbes and chemicals. Sika® Poxitar® F can be exposed to water immediately after application taking into consideration that thus solvents get into the water which leads to temporary contamination.

Immediate exposure to water should therefore only be considered in special cases and after consulting the authorities for the protection of environment.

APPLICATION INFORMATION

Mixing ratio	Comp. A : B = 85 : 15 (parts by weight)		
Consumption	Density liquid (approx kg/ltr)	1.8	
	Volume solids approx.% (vol)	87	
	Volume solids approx.% (weight)	96	
	Theoretical layer thickness with a consumption of 100 g/m ² (wet microns)	56	
	Theoretical layer thickness with a consumption of 100 g/m ² (dry microns)	49	
	Theoretical material consumption for medium dry film thickness of microns	150	
	Theoretical material consumption for medium dry film thickness of approx. kg/m ²	0.310	
Pot Life	At + 20°C	~1.5 h	
Waiting Time / Overcoating	Waiting time between operations up to max. 150 µm dry film thickness:		
		Waiting time (min.)	Waiting time (max.)
	At + 5 °C	36 h	96 h
	At + 10 °C	30 h	72 h
	At + 15 °C	24 h	60 h
	At + 20 °C	12 h	48 h
	At + 25 °C	8 h	36 h
At + 30 °C	6 h	24 h	
	The waiting times between applications depend largely on temperature and weather. If these waiting times cannot be observed, intercoat adhesion problems must be expected and activation will have to be carried out. The best activation method is by light grinding / blasting and followed by thorough dusting prior to application of the next coat.		
Drying time	With good ventilation, curing is completed after approx. 8–10 days at +20°C. Curing also takes place at lower temperatures - below +10 °C - but it takes longer (also under water curing).		

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete

At least 14 days old, solid and gripping, free of cement slurry, dust, loose and friable particles and other contamination.

Blast cleaning increases adhesion. This is particularly important in case of underwater exposure.

Large holes, holidays and cavities etc. should, if necessary be levelled up with Sikagard®-75 EpoCem.

Steel

Blastcleaning to SA 2½ according to ISO 12944, Part 4. Free of dirt, oil, fat etc.

MIXING

The material is packed in the right proportions. Stir part A (base component) thoroughly prior to application. Add part B (hardener) and mix thoroughly with low speed electric stirrer (with up and down movements).

When preparing small quantities the mixing proportions stated must be adhered to.

The mixed material can be used immediately.

In case of crystallization of part B (hardener) liquify it in a warm water bath (+40 °C to +50 °C) and let it cool down to normal temperature before mixing with part A (base component).

APPLICATION

Application methods

Brush application with distemper brushes, round brushes or radiator brushes. No solvents should be added, as they would delay curing, especially under water.

Airless spraying with airless equipment with a spray pressure of 150 bar, nozzle bore 0.53–0.66 mm (26 thou.) spray angle 40 °C–80 °C. At low temperatures up to 5% Thinner S may be added, but an immediate exposure to water is then not possible.

Application temperature

The higher the surface and ambient temperatures, the quicker the curing will be completed. Application is possible from +5 °C.

Under unfavourable conditions, e.g. influence of air humidity into the fresh coating, surface damages (brown discolouration) and possible little alligatoring might occur. However, these will have no effect on performance.

CLEANING OF TOOLS

Thinner S; only thin material where stated.

BASIS OF PRODUCT DATA

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Ecology: In a liquid state product and thinner contaminate water and should not be poured into drains, water and ground.

Waste disposal: Remnants of thinner and / or coating material must be removed according to regulations.

Transportation:

Component A: hazardous

Component B: hazardous

Refer safety data sheet.

Important notes:

- Application temperature minimum +5 °C;
- Observe safety advice printed on label;
- During application in closed rooms, pits and shafts etc. sufficient ventilation must be provided. Keep away open light including welding;
- In badly lit rooms only electric safety lamps are permitted. The installed ventilation equipment must be spark-proof;
- Protect skin with a non-greasy barrier cream prior to application in the sunlight.

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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