

Sika® Poxitar® F (*formerly Inertol-Poxitar® F*)
 Epoxy-anthracene oil-combination
 Heavy duty coating for steel and concrete

Product Description

Resistant 2-component reaction hardening coating of low solvent content based on an epoxy-anthracene oil-combination with mineral fillers.

Approved and listed by Federal Institute for Hydraulic Engineering (BAW).

Uses

- Protective coat for concrete and steel, as internal and external coating for buried and submerged structures, e.g. sewage systems, chemical industry etc. Also suitable where application onto damp concrete is inevitable.
- Not suitable for surfaces in contact with drinking water, housing, stables etc.

After complete curing Sika® Poxitar® F is :

- Tough hard, heavy duty
- Abrasion and impact resistant
- Excellent resistance to water and chemical

Sika® Poxitar® F can be exposed to water immediately after application. But take into consideration that 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.



Product Data

Form

Colour	Black, tinted red	
Packaging	Sika® Poxitar® F	35 and 17 kg pail
	Thinner S :	25, 10 and 3 litres pail
	SikaCor® Zinc R :	26, 15 and 7 kg pail
	Thinner K : (for SikaCor® Zinc R) :	25, 10 and 3 litres pail
	SikaCor® Cleaner :	25 and 160 litres 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.
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Technical Data

Resistance	<p><u>Chemical influences :</u> Sika® Poxitar® F is resistant to water, seawater, barnacles, diluted acids and lyes, neutral salts, mineral and fuel oils, grease, detergents etc.</p> <p>Not resistant to exposure to benzene-hydrocarbons and tar oil.</p> <p><u>Temperature :</u> Dry heat up to approx. +100°C, damp heat and warm water up to approx. +60°C, short term exposure up to approx. +80°C.</p> <p>Not resistant to warm water at significant differential of temperature gradient !</p>
VOC data	VOC content (ready to use) not exceeding 250 gm/litre [Type of regulated paint under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong : (industrial maintenance coatings)].

System Information

Coating systems	<p><u>Concrete :</u> 2-3 x Sika® Poxitar® F 1st coat to be thinned with max. 5% by weight Thinner S 2nd coat unthinned.</p> <p><u>Steel</u> 2-3 x Sika® Poxitar® F, preferably alternating colour shades. In case of heavy mechanical exposure priming with SikaCor® Zinc R is recommended.</p>
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Consumption / Coverage		Specific gravity liquid	Solids content approx.%		Theoretical material-consumption/ coverage without loss for medium dry film thickness of			
		approx. kg/L	by vol.	by weight	dry microns	wet microns	approx. kg/m ²	approx. m ² /kg
	Sika® Poxitar® F	1.8	87	96	150	175	0.310	3.25
SikaCor® Zinc R	2.8	67	89	60 80*)	90 120	0.250 0.335	4.00 3.00	

*) For spray application

Apart from small areas the dry film thickness of SikaCor® Zinc R should not exceed 150 microns per layer.

Application Details

Surface Preparation

Concrete :

Solid and gripping, free of cement laitance, dust, loose and friable particles and other contamination. Concrete moisture content max. 8%.

Sweep blasting increases adhesion. This is particularly important in case of underwater exposure. Large holes, holidays and cavities etc. should be levelled up with e.g. Icoment 520 Mortar or Sika® Poxitar® Mortar.

Steel :

Blast cleaning to Sa 2½ according to EN ISO 12944, part 4.

Free from dirt, oil and grease.

Average roughness depth $R_z \geq 50$ micron

Application Instructions

Mixing ratio

Component A : B = 85 : 15 (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 application method 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 solvent 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 and roller :

No solvents should be added curing, especially under water would be strongly retarded.

Airless-spraying :

With a spray pressure in gun or min. 150 bar, diameter of hoses min. 8 mm ($\frac{3}{8}$ inch) nozzle size 0.38 – 0.53 mm (0.015 – 0.021 inch).

Nozzle size 0.53 – 0.66 mm (0.021 – 0.026 inch) spraying angel 40°C – 80°C.

At low temperature max. 5% by weight Thinner S may be added. In this case an immediate exposure to water is not possible.

Potlife

Approx. 1½ hours at 20°C

Waiting time Between coats

Waiting time between operations up to max. 150 microns dry film thickness :

Product	Waiting time	+5°C after	+10°C after	+15°C after	+20°C after	+25°C after	+30°C after
Sika® Poxitar® F	Min.	36 h	30 h	24 h	12 h	8 h	6 h
	Max.	96 h	72 h	60 h	48 h	36 h	24 h

If these maximum waiting times cannot be observed, the surface must be activated by sweep blasting to avoid intercoat adhesion problems. Prior to application of the next coat a thorough dedusting is necessary.

Between SikaCor® Zinc R and Sika® Poxitar® F : 24 h at + 20°C (see product data sheet).

Final drying time

At +20°C and good ventilation final curing is achieved after approx. 8-10 days. Curing also takes place at lower temperatures-below +10°C - but it takes longer. Curing also takes place under water.

Thinner Only thin material where stated by Thinner S.

Cleaning of Tools SikaCor® Cleaner

Application Conditions

Application Temperature (material and surface) Minimum +5°C.
Under unfavourable conditions, e.g. influence of high air humidity into the fresh coating, surface damages (brown discolouration) and possibly little alligatoring may occur. However, this will not affect the quality.

Health and Safety Information

Safety precautions For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the Material Safety Data Sheet (available upon request) containing physical, ecological, toxicological and other safety-related data.

Please observe safety instruction on container labels and local regulations.

Dangerous Goods regulations have to be followed.

During application in closed rooms, pits and shafts etc, sufficient ventilation must be provided. Keep away open light, including welding.

In poorly lit rooms only electric safety lamps are permitted. The installed ventilation equipment must be spark-proof.

In a liquid, or not fully cured state, the thinner and the products contaminate water should not be allowed to enter drains or be spilled onto open ground. All spillages and liquid waste must be removed according to local Health and Safety regulations.

Further details are contained in our instruction "Health protection and the prevention of accidents".

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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ISO 9001 : 2008 Certificate No.: CC 446
ISO 14001 : 2004 Certificate No.: CC 2042
The product is manufactured under a HKQAA ISO 9001 / ISO 14001 certified quality / environmental management system.

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