

Technical Data-Sheet
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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).

Fields of application:

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.

Properties:

After complete curing Inertol-Poxitar F is:

- **tough hard, heavy duty**
- **abrasion and impact resistant**
- **excellent resistance to water and chemicals.**

Inertol-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

Colour shades: Black, red

Packaging: 17 kg net.

Shelf life: In originally sealed containers in a cool and dry environment: min. 2 years.

Construction



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Systems

Coating systems:Concrete:

2-3 x Inertol-Poxitar F;

1st coat to be thinned with max. 5% by weight Thinner S

2nd coat unthinned.

Steel:

2-3 x Inertol-Poxitar F; preferably alternating colour shades.

In case of heavy mechanical exposure priming with Friezinc R is recommended.

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 Inertol-Poxitar Mortar.

Steel:

Blast cleaning to Sa 2½ according to EN ISO 12944, part 4, free from dirt, oil and grease.

Technical data

Material consumption:

	Specific gravity liquid approx. kg/L	Solids content approx. %		Theoretical film thickness with 100 g/m ² consumption		Material-consumption for medium dry film thickness of	
		by vol.	by weight	wet microns	dry microns	microns	approx. kg/m ²
Inertol-Poxitar F	1,8	87	96	56	48	150	0,310
Friezinc R	2,8	67	89	36	24	60 80*)	0,250 0,335

*) For spray application:

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

Mixing ratio in parts**by weight:**

(Components A : B)

85 : 15

Resistance:Chemical influences:

Inertol-Poxitar F is resistant to water, seawater, barnacles, diluted acids and lyes, neutral salts, mineral and fuel oils, grease, detergents etc.

Not resistant to exposure to benzene-hydrocarbons and tar oil.

Temperature:

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.

Not resistant to warm water at significant differential of temperature gradient!

Hints on application

Preparation of material: Stir Component A very thoroughly using an electric stirrer. Add component B and mix both components very thoroughly (including sides and bottom of the container).

Application method: 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 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 and roller:

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

Airless-spraying:

With a spray pressure in gun of min. 150 bar; diameter of hoses min. 8 mm (3/4 inch); nozzle size 0,53 – 0,66 mm (0,021 – 0,026 inch); spraying angle 40° - 80°

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

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 alligating may occur. However, this will not effect the quality.

Potlife: At +20 °C approx. 1 1/2 h.

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
Inertol-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 Friezinc R and Inertol-Poxitar F: 24 h at +20 °C (see technical 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.

Cleaning of implements: Thinner S; only thin material where stated.

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.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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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