

**Product Data Sheet**  
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 Inertol Poxitar®

# Inertol Poxitar®

2 component, heavy duty, coal tar based epoxy coating for steel and concrete

<b>Product Description</b>	2-component reaction hardening coating of low solvent content based on a coal tar epoxy combination with mineral fillers.
<b>Uses</b>	Protective coat for concrete and steel, as internal and external coating for buried and submerged structures e.g. sewage systems, chemical industries, harbour facilities etc. Also suitable where application on to damp concrete is inevitable.(The marked line should be removed)  Not suitable for surfaces in contact with drinking water.
<b>Characteristics / Advantages</b>	After complete curing Inertol Poxitar® is : <ul style="list-style-type: none"> <li>■ Tough hard, heavy duty</li> <li>■ Abrasion and impact resistant</li> <li>■ Excellent resistance to water and chemicals</li> <li>■ Resistant to microbes</li> </ul>

## Product Data

<b>Form</b>	
<b>Appearance / Colours</b>	Part A: light yellow liquid Part B: black liquid  Part A+B: black liquid
<b>Packaging</b>	Part A: 0.8 kg x 2 containers Part B: 4.2 kg x 2 containers Part A+B: 5.0 kg x 2 ready to use units

## Storage

<b>Storage Conditions/ Shelf-Life</b>	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +35°C.
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## Technical Data

<b>Chemical Base</b>	Epoxy
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**Mixed Density** ~ 1.50 kg/l  
All density values at +27°C.

**Solid Content** ~ 77 % (by weight)

**Mechanical / Physical Properties**

**Resistance**

**Chemical Resistance**

Test medium	T	24 h	3 d	7 d	42 d	90 d	6 m
Sea Water(5% NaCl in aqueous solution)	30°C	A	A	A	A	A	A
Water	30°C	A	A	A	A	A	A
Nitric acid 10%	30°C	A	A	A	D	D	
Hydrochloric acid 10%	30°C	A	A	A	D	D	
Sulphuric acid 10%	30°C	A	A	A	D	D	
Diesel	30°C	A	A	A	A	A	A

\*acc. IS 4631-1968

A = resistant, D = resistant but with discolouration and/or loss of gloss, C = not resistant

**System Information**

**System Structure**

*Concrete:*  
Primer: 1 x Inertol Poxitar® + 5 % Sika® Thinner DS  
Seal coat: 1 - 2 x Inertol Poxitar®

*Steel:*  
Primer: 1 x Fraizinc® R (recommended for heavy mechanical exposure area)  
Seal coat: 1 - 2 x Inertol Poxitar®

\* For the application onto gypsum plaster boards, please refer to 'Notes on Application / Limitations'.

**Application Details**

**Consumption / Dosage**

Concrete:

Coating System	Product	Consumption
Primer	1 x Inertol Poxitar® + 5 % Sika® Thinner DS	~ 0.15 – 0.20 kg/m <sup>2</sup>
Seal coat	1 - 2 x Inertol Poxitar®	0.20 - 0.30 kg/m <sup>2</sup> per coat

Steel:

Coating System	Product	Consumption
Primer	1 x Fraizinc® R (recommended for heavy mechanical exposure area)	~ 0.15 – 0.20 kg/m <sup>2</sup>
Seal coat	1 - 2 x Inertol Poxitar®	0.15 - 0.20 kg/m <sup>2</sup> per coat

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile ,variations in level and wastage etc.

**Substrate Quality** Substrate must be clean.

**Substrate Preparation** For steel sand blasting or wire brushing is essential. Should be free from oil, dirt and grease. For concrete remove cement skin, loose particles etc. Cavities, pin holes should be levelled.

**Priming** Using Friezinc® R for priming has the advantage that no under rusting occurs in case of damage to the top coat.

### Application Conditions / Limitations

**Substrate Temperature** +10°C min. / +30 °C max.

**Ambient Temperature** +10C min. / +30 °C max.

**Substrate Moisture Content** ≤ 4% moisture content.

Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.

No rising moisture according to ASTM (Polyethylene-sheet).

**Relative Air Humidity** 75% r.h. max.

**Dew Point** Beware of condensation!

The substrate and uncured coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the coating surface.

### Application Instructions

**Mixing** Part A : Part B = 16 : 84 (by weight)

**Mixing Time** ~ 3 minutes

**Mixing Tools** Inertol Poxitar® is supplied in two parts. Stir Part B thoroughly to remix any settle part, add Component A and mix thoroughly with an electric stirrer with up and down movements

**Application Method / Tools** Brush application: With distemper brushes, round brushes or radiator brushes.  
Roller application: With short pile lamb skin roller

**Cleaning of Tools** Wash tools with Sika® Colma Cleaner immediately after use. Hardened material can only be removed mechanically

**Potlife** 5 kg mass

Temperatures	Time
+30°C	~2 hours

### Waiting Time / Overcoating

Substrate temperature	Minimum	Maximum
+10°C	16 hours	7 days
+20°C	8 hours	7 days
+30°C	4 hours	7 days

### Curing Details

**Applied Product ready for use**

Substrate temperature	Curing time
+30°C	7 days

Note: Times are approximate and will be affected by changing ambient conditions.

### 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.

### Health and Safety Information

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

## Legal Note

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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