

Product Data Sheet
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 Identification no:
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 Inertol Poxitar®

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

Product Description	2-component reaction hardening coating of low solvent content based on a coal tar epoxy combination with mineral fillers.
Uses	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.
Characteristics / Advantages	After complete curing Inertol Poxitar® is : <ul style="list-style-type: none"> ■ Tough hard, heavy duty ■ Abrasion and impact resistant ■ Excellent resistance to water and chemicals ■ Resistant to microbes
Product Data	
Form	
Appearance / Colours	Part A: light yellow liquid Part B: black liquid Part A+B: black liquid
Packaging	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	
Storage Conditions/ Shelf-Life	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.
Technical Data	
Chemical Base	Coal Tar based Epoxy Modified



Mixed Density	~ 1.50 kg/l All density values at +27°C.
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Solid Content	~ 77 % (by weight)
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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	<i>Concrete:</i> Primer: Seal coat:	1 x Inertol Poxitar® + 5 % Sika® Thinner DS 1 - 2 x Inertol Poxitar®
	<i>Steel:</i> Primer: Seal coat:	1 x Fraizinc® R (recommended for heavy mechanical exposure area) 1 - 2 x Inertol Poxitar®
* For the application onto gypsum plaster boards, please refer to 'Notes on Application / Limitations'.		

Application Details

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

Steel:

Coating System	Product	Consumption
Primer	1 x Fraizinc® R (recommended for heavy mechanical exposure area)	~ 0.15 – 0.20 kg/m ²
Seal coat	1 - 2 x Inertol Poxitar®	0.15 - 0.20 kg/m ² 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.
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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.
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Priming Using Friazinc® 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.

Important Instruction

Inertol Poxitar® is not recommended to apply in confined area without proper ventilation & safety equipment.

If any customer wants to apply this coating under this type of environment, then customer has to get the clearance from own health & safety department. Applicator has to wear proper safety uniform & must use oxygen cylinder with proper breathing attachment before entering into that area. Avoid staying for longer time during application, must take rest at interval. Whole application has to be done under proper supervision.

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.



Sika India Pvt. Ltd.
Commercial Complex II
620, Diamond Harbour Road
Kolkata, 700 034, India

Phone +91 33 2447 2448/2449
Telefax +91 33 2397 8688
ind.sika.com
info.india@in.sika.com