BUILDING TRUST

PRODUCT DATA SHEET

Inertol® Poxitar®

2 COMPONENT, HEAVY DUTY, COAL TAR BASED EPOXY COATING FOR STEEL AND CONCRETE

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 :
- Tough hard, heavy duty
- Abrasion and impact resistant
- Excellent resistance to water and chemicals
- Resistant to microbes

PRODUCT INFORMATION

Composition	Coal Tar based Epoxy Modified
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
Appearance / Colour	Part A: light yellow liquid Part B: black liquid Part A+B: black liquid
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
Density	~ 1.50 kg/l All density values at +27°C.
Solid content by weight	~ 77 %

TECHNICAL INFORMATION

Chemical Resistance

Test medium	Temp.	24 h	3 d	7 d	90 d
Sea Water(5% NaCl in aquous solution)	30°C	A	A	A	A
Water	30°C	A	A	A	A
Nitric acid 10%	30°C	A	A	A	D
Hydrochloric acid 10%	30°C	A	A	A	D
Sulphuric acid 10%	30°C	A	A	A	D
Diesel	30°C	A	A	A	A

*acc. IS 4631-1968
A = resistant, D = resistant but with discolouration and/or loss of gloss, C = not resistant

SYSTEMS

Systems

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 INFORMATION

Mixing Ratio

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

Consumption

Concrete:

Coating System	Product	Consumption
Primer	1 x Inertol® Poxitar®+ 5 % Sika® Thinner DS	~ 0.15 – 0.20 kg/m²
Seal coat	1 - 2 x Inertol® Poxitar®	~ 0.20 - 0.30 kg/m² per coat

Steel:

Coating System	Product	Consumption
Primer	1 x Fraizinc® R (recommended for heavy mechanical exposure area)	~ 0.15 – 0.20 kg/m²
Seal coat	1 - 2 x Inertol® Poxitar®	~ 0.15 - 0.20 kg/m² 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.

Ambient Air Temperature

+10°C min. / +30 °C max.

Relative Air Humidity

75% r.h. max.

Dew Point	Beware of condensation! The substrate must be at least 3˚C above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure of final finish. Be aware that the substrate temperature may be lower than the ambient temperature
Substrate Temperature	+10°C 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).
Pot Life	5 kg mass

Temperature	Time
+30°C	~2 hours

Curing Time

Substrate temperature	Substrate temperature
+30°C	7 days

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

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

APPLICATION INSTRUCTIONS

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

MIXING

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 for 3 minutes.

APPLICATION

Priming:
Using Friazinc® R for priming has the advantage that no under rusting occurs in case of damage to the top coat.
Application Method / Tools:
Brush application: With distemper brushes, round brushes or radiator brushes.
Roller application: With short pile lamb skin roller

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

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.

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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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.

SIKA BANGLADESH LIMITED
Skylark MAK 84, 8th floor
House No. 84, Block D, Road No. 11
Banani, Dhaka-1213, Bangladesh
Phone 1: +88 01313095060
Phone 2: +88 01313095061
ind.sika.com