

# Sika Inertol-Poxitar® MY

## Heavy duty coal tar epoxy coating for steel and concrete

**Product Description** Sika Inertol-Poxitar® MY is a two part reaction hardening, chemical resistant coating of low solvent content based on coal tar epoxy resin, in combination with mineral fillers.

**Uses** Sika Inertol-Poxitar® MY is used as a chemical resistant coating on:

- Sewage treatment plants
- Immersed piers
- Steel and concrete silos
- Oil catchment tanks
- Steel protection
- Marine structures

Sika Inertol® Poxitar- MY is **not suitable** for surfaces in contact with drinking water.

**Characteristics / Advantages**

- Suitable for concrete and steel surfaces
- Can also be applied as an internal and external coating for permanently immersed or buried structures

### Product Data

#### Form

**Appearance / Colours** Black

**Packaging** 20 ltr set (Parts A+B)

#### Storage

**Storage Conditions / Shelf Life** 12 months from date of production if stored properly in original unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +30°C. Keep away from direct sunlight.

#### Technical Data

**Density** ~ 1.4 kg/ltr mixed resin

**Solid Content** 90% ± 2% (by weight) / 85% ± 2% (by volume)



## Mechanical / Physical Properties

**Adhesive Strength** On concrete: ~ 1.5 N/mm<sup>2</sup> (typical result) (ASTM D 4541)  
On ground steel: ~ 1.6 N/mm<sup>2</sup> (typical result)

**Abrasion Resistance** (ASTM D 4060)  
(testing conditions: abrasive wheel: CS 10; load: 1 kg; 1,000 revolutions)  
Weight loss: 0.057 g  
Wear Index: 57  
Extracted from SIRIM report No. 2007KL0825

**Mandrel Bend Test** The film showed no cracking at mandrel size 6 mm (ASTM D 522)  
Elongation range: 30.7%  
Extracted from SIRIM report No. 2007KL0825

## Resistance

**Temperature Resistance** Continuous: +90°C  
Non-continuous: +120°C

### Chemical Resistance

Exposure	Immersion	Splash and spillage	Fumes
Acids	Very good	Excellent	Excellent
Alkalies	Very good	Excellent	Excellent
Solvents	Good	Very good	Excellent
Salts	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

Note: Sika Inertol-Poxitar<sup>®</sup> MY is not suitable for immersion in aromatic or ketone solvents or strong oxidizing acids.

## System Information

### Application Details

**Consumption** 0.18 ltr/m<sup>2</sup>/coat – 2 coats minimum.  
Film thickness (2 coats): 350 micron (wet) / 300 micron (dry)

### Substrate Quality

#### Concrete

At least 14 days old and should be minimum 20 N/mm<sup>2</sup>. It must be dry, sound and gripping, free of cement slurry, dust, loose and friable particles and other contamination.

#### Steel

Steel surfaces must be dry, free of oil, grease and dirt.

Depending on surface condition (roughness, porosity, etc.) material consumption for the first application on concrete may be higher. Consumption is the same for airless spray applications as by brush.

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**Substrate Preparation / Priming****Concrete**

Concrete surfaces should be prepared by thoroughly mechanically wire-brushing, abrading, scarifying or preferably by high pressure water/sand blasting. This is particularly important in case of underwater exposure.

Large holes, cavities, blow-holes or irregularities should be patched / filled up with Sikadur<sup>®</sup>-31 LP adhesive or Sikadur<sup>®</sup>-41 LP patching mortar.

**Steel**

For immersion service, sandblast cleaning is required to remove all surface contaminants (paint rust, mill scale, etc) from at least 95% of surface area of any section. For non-immersion service, a commercial blast cleaning is required to remove almost all rust, mill scale and foreign matter (the remaining surface should be greyish in colour); power tool cleaning is acceptable with specific recommendations. Coating in all cases with prepared metals must proceed without delay and certainly within 4 hours of preparation.

**Primer on steel**

For heavy mechanical exposure, priming with Friezinc<sup>®</sup> RMY is recommended (see the relevant Product Data Sheet).

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**Application Conditions / Limitations**

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

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**Application Instructions**

**Mixing Ratio** Parts A : B = 4:1 parts by volume

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**Mixing** Stir part A (base component) thoroughly prior to application. Add part B (hardener) and mix thoroughly with an electric stirrer using up and down movements. The mixed material can be used immediately.

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**Application Method / Tools** Airless spray, conventional spray, brush or roller.

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**Cleaning of Tools** Clean all tools and application equipment with Thinner C or Thinner S immediately after use. Hardened and/or cured material can only be mechanically removed.

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**Potlife** 6 – 8 hours (at +23°C)

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**Intercoat Periods** Minimum: 6 hours  
Maximum: 24 hours

Note: The waiting times between applications depend largely on temperature and weather. Lower temperature will increase the minimum time and increase the maximum time.

To ensure good intercoat adhesion, light grinding of the previous coat followed by a thorough de-dusting is required.

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**Final Drying Time** 24 – 48 hours

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**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.

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## 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 (available upon request) 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.



Sika Kimia Sdn Bhd  
Lot 689 Nilai Industrial Estate  
71800 Nilai, Negeri Sembilan DK  
MALAYSIA

Phone: +6 06 799 1762  
Fax: +6 06 799 1980  
e-mail: [info@my.sika.com](mailto:info@my.sika.com)  
[www.sika.com.my](http://www.sika.com.my)

