Sika® Inertol®-49 W / -49 W Thixo

DESCRIPTION
Sika® Inertol®-49 W is a 1-pack coating material based on bitumen. Sika® Inertol®-49 W Thixo is identical with above and contains additional mineral fillers.

USES
Sika® Inertol®-49 W / -49 W Thixo may only be used by experienced professionals. For the protection of steel and concrete in contact with water.

CHARACTERISTICS / ADVANTAGES
• Sika® Inertol®-49 W and Sika® Inertol®-49 W Thixo are easily applied by brush
• After drying Sika® Inertol®-49 W has a smooth, black-glossy appearance
• After drying Sika® Inertol®-49 W Thixo has a slightly mat film
• Both products have good mechanical properties

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Sika® Inertol®-49 W</th>
<th>10 l and 3 l</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sika® Inertol®-49 W Thixo</td>
<td>12.5 kg net. and 3 l</td>
</tr>
<tr>
<td></td>
<td>Sika® Thinner B</td>
<td>10 l and 3 l</td>
</tr>
<tr>
<td>Appearance / Colour</td>
<td>Sika® Inertol®-49 W</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td>Sika® Inertol®-49 W Thixo</td>
<td>Black</td>
</tr>
<tr>
<td>Shelf life</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>Storage conditions</td>
<td>In originally sealed containers in a cool and dry environment.</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>Sika® Inertol®-49 W</td>
<td>~0.9 kg/l</td>
</tr>
<tr>
<td></td>
<td>Sika® Inertol®-49 W Thixo</td>
<td>~1.2 kg/l</td>
</tr>
<tr>
<td>Solid content</td>
<td>Sika® Inertol®-49 W</td>
<td>45 %</td>
</tr>
<tr>
<td></td>
<td>Sika® Inertol®-49 W Thixo</td>
<td>55 %</td>
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</table>
TECHNICAL INFORMATION

Chemical Resistance
To water, also chlorinated water resistant, as well as to neutral salts. Not resistant to the exposure of petrol and aromatic hydrocarbons as well as fats.

Thermal Resistance
Dry heat up to max. + 80°C
Damp heat up to max. + 60°C
Warm water up to max. + 40°C

SYSTEM INFORMATION

System
Steel:
3 - 4 x Sika® Inertol®-49 W Thixo

Exposure to water:
1 x SikaCor® Zinc R
3 x Sika® Inertol®-49 W Thixo

Concrete:
3 - 4 x Sika® Inertol®-49 W

For heavier exposure:
2 - 3 x Sika® Inertol®-49 W Thixo
(In case of especially rough or absorbent surfaces priming with Sika® Inertol®-49 W may become necessary)

APPLICATION INFORMATION

Thinner
Sika® Thinner B
If necessary max. 4 % Sika® Thinner B may be added to adapt the viscosity.

Consumption
Theoretical material-consumption/VOC without loss for medium dry film thickness:

<table>
<thead>
<tr>
<th>Product</th>
<th>Sika® Inertol®-49 W</th>
<th>Sika® Inertol®-49 W Thixo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry film thickness</td>
<td>60 μm</td>
<td>80 μm</td>
</tr>
<tr>
<td>Wet film thickness</td>
<td>135 μm</td>
<td>145 μm</td>
</tr>
<tr>
<td>Consumption</td>
<td>~0.120 kg/m²</td>
<td>~0.175 kg/m²</td>
</tr>
<tr>
<td>VOC</td>
<td>~57.6 g/m²</td>
<td>~50.6 g/m²</td>
</tr>
</tbody>
</table>

Product Temperature
Min. + 5°C

Relative Air Humidity
Max. 85 %, except the surface temperature is significantly higher than the dew point temperature, it shall be at least 3 K above dew point.

Surface Temperature
Min. + 5°C

Waiting Time / Overcoating
1 day

Drying time
Final drying time
10 - 14 days (after application of complete coating system).

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete:
Dry, solid, gripping, free from loose and friable particles.

SURFACE PREPARATION

Steel:
Blast cleaning to Sa 2 ½ according to ISO 12944-4.
In exceptional cases with only light exposure, de-rusting to St 3.
Free of dust, oil and grease.
MIXING

Sika® Inertol®-49 W and Sika® Inertol®-49 W Thixo are supplied ready for use. Stir thoroughly prior to application.

APPLICATION

The method of application 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. 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

Conventional high pressure spraying:
• Nozzle size 1.2 - 2.0 mm
• Pressure 3 - 5 bar

Airless-spraying:
• Pressure min. 150 bar
• Nozzle size 0.46 - 0.66 mm (0.019 - 0.025 inch)
• Spraying angle 40° - 80°

Dipping:
2 x Sika® Inertol®-49 W Thixo
Dipping twice is sufficient for Sika® Inertol®-49 W Thixo. When repeating the dipping operation the object should be immersed as short as possible, otherwise the existing film may become detached. It is important to move the object slowly during the dipping process by turning and twisting in order to release entrapped air (air bubbles), especially in corners etc.

CLEANING OF TOOLS

Sika® Thinner B

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

GISCODE: BBP 30
This coding enables additional information and help with the creation of operating instructions (WINGIS online) to be obtained on the BG Bau service pages (www.gisbau.de).

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.