

## PRODUCT DATA SHEET

# Sikalastic®-450 (i) TH

### POLYURETHANE MODIFIED BITUMINOUS WATER BASE LIQUID APPLY MEMBRANE

#### DESCRIPTION

Sikalastic®-450 (i) TH is a ready to use, cold applied, single component, Polyurethane modified bitumen emulsion.

#### USES

- For waterproofing solution in both new construction and refurbishment project
- For the waterproofing of bathrooms, shower rooms, kitchen and balconies be neath hard protection, for example ceramic tiles
- Horizontal and vertical application

#### CHARACTERISTICS / ADVANTAGES

- Single component and cold applied
- Easy to use
- Environment friendly (water base)
- Compatible with cementitious tile adhesive Sika-Ceram® -250

#### PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Packaging</b>          | 20 kg/drum   |
| <b>Colour</b>             | Black  |
| <b>Shelf life</b>         | 12 months from the date of production If stored properly in undamaged, original, sealed packaging.   |
| <b>Storage conditions</b> | Keep in undamaged and unopened original container and store at protected area from direct sunshine in dry condition at temperatures between +10°C and +30°C. |
| <b>Density</b>            | 1.2 ±0.02  |
| <b>Solid content</b>      | 65% min.   |

#### TECHNICAL INFORMATION

|                            |                        |             |
|----------------------------|------------------------|-------------|
| <b>Tensile Strength</b>    | >0.5 N/mm <sup>2</sup> | (ASTM D412) |
| <b>Elongation at Break</b> | >700% appox.           | (ASTM D412) |

# SYSTEMS

| System Structure | Layer Thickness | Coating system at DFT ~ 1.0 mm.   |
|------------------|-----------------|---|
|                  | Primer          | 1 part Sikalastic®-450 (i) TH + 1 part Water, 0.3-0.5 kg/m <sup>2</sup> |
|                  | Base Coat       | Sikalastic®-450 (i) TH 0.9 kg/m <sup>2</sup>                            |
|                  | Top Coat        | Sikalastic®-450 (i) TH 0.9 kg/m <sup>2</sup>                            |

For higher performance fiber glass reinforcement can be applied at the base coat of Sikalastic®-450 (i) TH.

## APPLICATION INFORMATION

|                         |   |
|-------------------------|---|
| Substrate Pre-Treatment | New concrete should be cured for at least 28 days and should have a pull off strength $\geq 1.0 \text{ N/mm}^2$ (supported by test on site)                 |
| Drying time             | The drying time depends on the type of substrate, temperature, humidity and thickness of layer and etc. At 25 C, need to wait around 3 hours per each coat. |

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All surfaces should be sound, clean and free of contaminants. Absorbent surfaces e.g. concrete should preferably be dampened with water. In kitchens, toilets and other wet areas all the openings should be properly sealed. On all weak points and detailing such as cracks or around the pipes use a woven fiber glass mesh as reinforcement between the two coats of Sikalastic®-450 (i) TH.

### APPLICATION

Sikalastic®-450 (i) TH can be applied by brush, roller or squeegee. Hot, dry or very porous substrate should be dampened with clean water prior to application of Sikalastic®-450 (i) TH. When two or more coats are required, ensure that the preceding coat is fully dry before applying the successive coat, which should be applied at right angle to proceeding coat.

Sikalastic®-450 (i) TH also acts as a non-degradable curing membrane hence it may be applied immediately after the removal of mould to the concrete structure which has no aesthetic value such as the sub structure of the building.

### CLEANING OF EQUIPMENT

Sikalastic®-450 (i) TH Tools may be cleaned with water as long as the product is wet. Once dry by mechanical means only.

## IMPORTANT CONSIDERATIONS

- Can test the water after apply at least in 3 days
- Can apply concrete topping after apply the product at least 3 days but should not more than 7 days.
- Before apply the concrete topping need to cover all waterproofing area with the protective sheet as polythene sheet.
- About the tiling work, recommend to do on "the concrete topping" before tiling work.

## 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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 Material Safety Data Sheet 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.

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