

# PRODUCT DATA SHEET

## SikaTop<sup>®</sup>-77 D

### BONDING AGENT

#### DESCRIPTION

A water and oil resistant emulsion which produces bonding coats, polymer modified sand and cement mortars with high mechanical strengths coupled with good resistance to oil and water.

#### USES

- As a bonding agent for mortar, rendering and floor screeds
- As a patching and repair mortar
- As a bonding coat between concrete and rendering (wet on wet).

- As a bonding agent for joining old and new concrete.
- Abrasion resistant coverings in hydraulic structures, drainage channels, sewage plants etc.
- Pointing brickwork.

#### CHARACTERISTICS / ADVANTAGES

Improvement of the mortar properties:

- Excellent adhesion.
- Improved elasticity.
- Reduced shrinkage.
- Good water and oil resistance.
- Improved chemical and abrasion resistance.
- Improved mechanical resistance.

#### PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| <b>Chemical Base</b>       | Synthetic Resin Dispersion                          |
| <b>Packaging</b>           | 20 kg can<br>200 kg drum                            |
| <b>Appearance / Colour</b> | Liquid / White                                      |
| <b>Shelf Life</b>          | 12 months if stored in unopened original container. |
| <b>Storage Conditions</b>  | Store in dry cool, and shaded place.                |
| <b>Density</b>             | ~1.01 kg/L  |

#### APPLICATION INFORMATION

|                           |   |
|---------------------------|---|
| <b>Recommended Dosage</b> | Added to the mixing water within the range 1:0 – 1:1.5 depending on application |
|---------------------------|---|

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

#### Surface Preparation

Concrete surface should be clean, sound and free from oil, grease, cement laitance and all loosely adhering particles.

#### Mixing

Add to the mixing water prior to its addition to the dry mix aggregates and mix until the desired consistency is achieved.

#### Bonding coat for rendering mortar, floor screed

|   |             |
|---|-------------|
| SikaTop : Water                               | 1 : 0       |
| Cement : Sand                                 | 1 : 0.6 - 1 |
| Sand grade (mm)                               | 0 - 2 max   |
| Consumption (kg/m <sup>3</sup> /cm thickness) | 4.6 - 6     |

#### Patching / levelling Mortar

|   | Coat<10mm | Coat>10mm |
|---|-----------|-----------|
| SikaTop : Water                               | 1 : 0     | 1 : 0.5   |
| Cement : Sand                                 | 1 : 1 - 3 | 1 : 3     |
| Sand grade (mm)                               | 0 - 6 max | 0 - 6 max |
| Consumption (kg/m <sup>3</sup> /cm thickness) | 2.2 - 4.6 | 1.4 - 2.0 |

#### Abrasion resistant floor screed

|   | heavy duty  | normal duty   |
|---|-------------|---------------|
| SikaTop : Water                               | 1 : 0 - 0.5 | 1 : 0.5 - 1.5 |
| Cement : Sand                                 | 1 : 2 - 3   | 1 : 2 - 3     |
| Sand grade (mm)                               | 0 - 8 max   | 0 - 8 max     |
| Consumption (kg/m <sup>3</sup> /cm thickness) | 1.4 - 3.8   | 0.8 - 2.6     |

#### Smooth finishing coats for leveling

|   |             |
|---|-------------|
| SikaTop : Water                               | 1 : 0.5 - 1 |
| Cement : Sand                                 | 1 : 2       |
| Sand grade (mm)                               | 0 - 1 max   |
| Consumption (kg/m <sup>3</sup> /cm thickness) | 1.4 - 2.6   |

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## LIMITATIONS

Do not use SikaTop®-77 D as bonding coat without adding cement and sand.

## 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 and recommended uses for this product may vary from country to country. Please 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.

## 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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