

## PRODUCT DATA SHEET

# Sika MonoTop®-109 WaterProofing

Cementitious waterproofing mortar

### DESCRIPTION

Sika MonoTop®-109 WaterProofing is a 1-part, cementitious waterproofing mortar.

### USES

Waterproofing small areas such as:

- Basement walls
- Ponds
- Tanks
- Below-ground structures

Substrates include:

- Brick
- Concrete
- Stone blocks (including foundations)

### CHARACTERISTICS / ADVANTAGES

- 1-part product, only needs the addition of water
- Good adhesion on various substrates
- Easy and fast application
- Can be applied by brush, spatula or smooth trowel

### PRODUCT INFORMATION

<b>Composition</b>	Cement binder	
<b>Packaging</b>	5 kg bags. 4 bags per box	
<b>Shelf life</b>	15 months from date of production	
<b>Storage conditions</b>	Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.	
<b>Appearance and colour</b>	Grey powder	
<b>Density</b>	Bulk	~1,25 kg/l
	Fresh mortar	~2,10 kg/l

### TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	~0,5 MPa	(EN 1542)
<b>Water penetration under pressure</b>	No water penetration (1,5 bar for 7 days)	(EN 14891, A.7)
<b>Water penetration under negative pressure</b>	No water penetration (2,50 bar for 72 hours)	(UNI 8298-8)

## APPLICATION INFORMATION

Mixing ratio	1,25 litres of water for a 5 kg bag (25 % water)
Consumption	~1,5 kg / m <sup>2</sup> per mm of thickness This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.
Layer thickness	3 mm uniform thickness, applied in a minimum of 2 layers
Ambient air temperature	+5 °C min / +35 °C max
Substrate temperature	+5 °C min / +35 °C max
Pot Life	~45 minutes at +20 °C
Final set time	7 days (at +23 °C and R.H. 50 %) for full service

## 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.

## IMPORTANT CONSIDERATIONS

- Protect freshly applied material from freezing and rain at least during the curing time
- Avoid application in direct sun and/or strong winds
- Avoid any stagnant water presence or condensation / ponding on the surfaces before application
- Not suitable as a decorative treatment
- The product is not flexible and may crack in areas of movement
- The product contains water-repellent components. Do not overpaint or plaster
- The total thickness must not exceed 4 mm
- Do not apply on plaster, plasterboard, anhydrite screeds, wood, surfaces treated with paints, coatings, plastic coatings or bitumen

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

**Important:** Seal and make watertight, all connections between the substrate and pipe entries, plant and equipment, light switches etc before applying the product.

**Important:** Seal and make watertight any joints which are present in the structure before applying the product.

**Important:** Fill brick and stone joints level with the adjoining materials before applying the product.

- The concrete substrate must be thoroughly clean, free from dust, loose material, surface contamination, running or seeping water, cement laitance and other materials which could reduce adhesion or prevent suction or wetting by the slurry.
- Prepare the substrate by mechanical grinding or high-pressure water blasting equipment to an open texture finish to achieve the required adhesion value.

### MIXING

**Important:** The consistency must be checked after every mix.

1. Pour the minimum recommended clean water quantity in a suitable mixing container.
2. While stirring slowly, add the full bag of powder continuously to the water until a uniform lump free consistency has been achieved.
3. Continue mixing for 3 minutes.

## APPLICATION

**Important:** Thoroughly saturate the prepared substrate before application with clean water to achieve a saturated surface dry (SSD) surface. Before application remove excess water, e.g. with a clean sponge.

**Important:** The first layer must be applied by stiff bristled brush.

Note: The product can be applied with a stiff bristled brush, spatula or smooth trowel in 2 or 3 layers.

1. Apply mixed material onto the prepared pre-wet substrate by slurry brush by working the slurry well into the substrate and without the formation of voids.
2. Apply the following layers at right angles to each other when the previous layer has sufficiently dried (~4–6 hours) and no later than 12 hours.

## CURING TREATMENT

- Protect fresh mortar immediately from premature drying using an appropriate curing method, e.g. water spray, moist geotextile membrane, polyethylene sheet, etc.
- Cure for at least 7 days after application.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

Hardened material can only be mechanically removed.

## 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.

## LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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