

## PRODUCT DATA SHEET

# Sika MonoTop®-109 WaterProofing AE

## CEMENTITIOUS WATERPROOFING MORTAR

### DESCRIPTION

Sika MonoTop®-109 WaterProofing AE is a 1-part, cementitious waterproofing mortar. Suitable for use in tropical and hot climatic conditions.

### USES

Use Sika MonoTop®-109 WaterProofing AE in small areas such as:

- Basement walls
- Ponds
- Non potable water tanks
- Below-ground structures

Substrates include:

- Brick
- Concrete
- Stone blocks

### 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

Composition	Cement binder
Packaging	5 kg plastic bag
Shelf life	12 months from date of production
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions.
Appearance and colour	Grey powder

### TECHNICAL INFORMATION

Tensile adhesion strength	~0.5 N/mm <sup>2</sup>	(EN 1542)
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### APPLICATION INFORMATION

Mixing ratio	1.25 liter of water per bag of 5 kg (25 % water)
Fresh mortar density	~2.03 kg/l
Consumption	~2.03 kg / m <sup>2</sup> per 1 mm of thickness

<b>Layer thickness</b>	2 mm with constant thickness, applied in minimum 2 layers
<b>Ambient air temperature</b>	+5 °C minimum / +35 °C maximum
<b>Substrate temperature</b>	+5 °C minimum / +35 °C maximum
<b>Pot Life</b>	~45 min at +20 °C
<b>Waiting time</b>	7 days (at +23 °C and R.H. 50 %) for full service

## 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.

## 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.
- To overpaint, tile or application on plaster and plasterboard please consult with Sika Technical Department.
- The total thickness must not exceed 4 mm.
- Do not apply on anhydrite screeds, wood, surfaces treated with paints, coatings, plastic coatings, direct contact with aggressive soil, sea water or bitumen.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

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

**Important:** Seal and waterproof 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

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 exact product data and uses.

## 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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All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards ISO 9001,  
ISO 14001 and ISO 45001.

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