



# Sika® Damp-proofing Slurry

## Damp-proofing and Waterproof Coating

### Technical Data Sheet

#### DESCRIPTION

**Sika Damp-proofing Slurry** is a one component polymer modified cement based waterproof coating comprising of special cement based components and admixtures. When mixed with water a slurry or mortar material is produced for direct application to a variety of construction substrates.

#### USES

- \* Waterproof coating for tanking residential/domestic basements.
- \* Thin layer mortar or slurry coating/lining.
- \* For internal waterproofing/damp-proofing of basement and cellar walls and floors.
- \* For interior and exterior damp-proofing of basement walls in new buildings.
- \* For interior and exterior waterproofing of concrete, renders, brickwork and blockwork structures.
- \* Lining of water tanks, pools, planters etc.
- \* For protection of concrete structures against the effects of de icing salts and freeze-thaw action.
- \* For sealing fine "hairline" cracks in concrete structures not subject to movement.

#### ADVANTAGES

- \* Low odour compared to bitumen coatings.
- \* Easy to use and apply.
- \* BBA approved.
- \* Just add water.
- \* Brush, trowel or spray applied.
- \* Easy and fast mixing.
- \* Consistency can be varied to suit application method.
- \* Good adhesion.
- \* Excellent workability.
- \* Protects against water penetration.
- \* Non-corrosive to steel or iron.
- \* Fast curing.
- \* Non toxic.
- \* Conforms to BS 8102:1990 as a polymer - cement based waterproof coating for Type A shallow basement structures - Grades 1, 2 and 3.

#### Technical Data (typical)

<b>Mixed colour:</b>	Cement Grey and Off White
<b>Mixed wet density:</b>	2.1 kg/litre (1.8 kg/litre powder)
<b>Application temperature:</b>	+5°C min, +35°C max (Substrate and ambient)
<b>Application thickness per layer:</b>	1.0 mm minimum 2.0 mm maximum 2 coats minimum
<b>Mix ratios:</b>	
Slurry application: (brush)	4.5 - 4.7 L water per 25 kg bag
Mortar application: (trowel)	4.0 - 4.25 L water per 25 kg bag
Spray application:	4.0 - 4.5 L water per 25 kg bag
<b>MECHANICAL PROPERTIES</b>	
<b>28 days @ 20°C</b>	
	3 days      28 days
<b>Compressive strength:</b>	20 N/mm <sup>2</sup> 40 N/mm <sup>2</sup>
<b>Flexural strength:</b>	5.0 N/mm <sup>2</sup> 9.0 N/mm <sup>2</sup>
<b>Bond strength: (tensile)</b>	>1.5 N/mm <sup>2</sup> (Failure in prepared substrate)
<b>E-Modulus (static):</b>	18 KN/mm <sup>2</sup>
<b>Water vapour resistance:</b>	3 MNsg <sup>-1</sup>
<b>Carbon dioxide diffusion resistance (μCO<sub>2</sub>):</b>	6400
<b>'Working time': (@20°C)</b>	30 - 40 minutes

All above values are approximate.

## SURFACE PREPARATION

### Brickwork, masonry, blockwork

The surface must be wire brushed, all mortar joints flush pointed, and the surface cleaned thoroughly to remove oils, grease, paint, bitumen or other surface contaminants. Note: glazed or smooth faced surfaces should be bush hammered or needle gunned. Soft/defective mortar joints should be raked out to a depth of 12mm and repointed using the **Sika Damp-proofing Slurry** mortar mix.

### Concrete

Concrete surfaces should be bush hammered or grit blasted to remove laitance.

Water infiltration through the surface to be treated must be either diverted by drainage or concentrated at points which will be plugged. **Sika Limited** be consulted for advice on suitable materials.

Pre-fill all cavities, honeycombed concrete etc to provide an even surface, free from voids with **Sika Damp-proofing Slurry** mortar mix.

## MIXING

**Sika Damp-proofing Slurry** should be mechanically mixed using a forced action mixer or in a clean bucket using a drill and plaster paddle stirrer (max 500 rpm). A normal concrete mixer is NOT suitable.

Pour the required mix ratio of water (refer to technical data) into mixing bucket and add **Sika Damp-proofing Slurry** slowly under continual mixing until a uniform lump free consistency is achieved (approx 3 minutes).

## APPLICATION

Apply in 2 layers to give a total thickness of 2.0 mm.

The substrate should be dampened thoroughly with no standing water before application.

### Slurry Application:

Apply **Sika Damp-proofing Slurry** in even layers using a flat fibre brush on vertical surfaces and a rubber squeegee or brush for horizontal surfaces and allow to stiffen (2-6 hrs). Apply a second coat of **Sika Damp-proofing Slurry** as soon as the first coat has hardened and within 24 hours at the same coverage rate.

### Mortar Application:

Apply the first layer of **Sika Damp-proofing Slurry** using a tooth trowel with 3-4 mm teeth. Once the first coat has hardened, use a smooth edged trowel to apply the second coat.

### Spray Application:

Use wet spray equipment to apply the first and second coats of **Sika Damp-proofing Slurry** ensuring the first coat has hardened sufficiently to prevent damage from the second spray application. Smooth second coat using brush or trowel.

### Internal finishes:

Plasterboard for drylining can be bonded using plaster dabs, **Sikaflex 11FC** or **Sikaflex EBT**. Timber battens can also be bonded with **Sikaflex 11FC** or **Sikaflex EBT**. Finish plasters such as **SikaMur® Finish** or **Thistle Multi-Finish/Thistle Renovating Finish** can be used. Do not pre-wet surface before applying plaster finishes. Do not use gypsum based plasters. Refer to plaster manufacturer.

### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

**Please consult our Technical Sales Department for further information**

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ISO 14001



ISO 9001

## IMPORTANT CONSIDERATIONS

### CURING

In damp internal conditions, **Sika Damp-proofing Slurry** does not need curing. Ensure windows are closed to prevent drying winds. In external conditions when exposed to the sun and/or drying winds protect from drying out. Use polythene sheeting or other approved method.

- \* **Sika Damp-proofing Slurry** does not provide a traffickable finish. Protect with a levelling screed.
- \* **Sika Damp-proofing Slurry** is not a decorative treatment and may display signs of "blooming" after rain or in damp weather conditions. This does not affect the performance of the coating.
- \* Special attention is required to avoid puncturing the waterproof coating with fixings. These should be accommodated either by surface bonding with **Sikadur® 31**, **Sikaflex® 11FC** or **Sikaflex EBT**.
- \* Do not exceed maximum layer thickness.
- \* Apply only to prepared, sound substrates.
- \* Protect freshly applied material from freezing and rain.
- \* **Sika Damp-proofing Slurry** will not bond to surfaces that have been treated previously with a water repellent.
- \* **Sika Damp-proofing Slurry** does not comply with DWI approvals. For damp-proofing potable water structures use **SikaTop® Seal 107**.
- \* Finishing plasters may take longer to set when applied over **Sika Damp-proofing Slurry**.

### CLEANING

Remove **Sika Damp-proofing Slurry** from tools and equipment with water. Hardened material can only be removed mechanically.

### PACKAGING

25 kg bags.

### CONSUMPTION

One 25kg bag will cover upto 6.5-7.0m<sup>2</sup> @ 2.0mm thick. Excluding allowances for loss wastage, surface profile and porosity.

### STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).