PRODUCT DATA SHEET

Sika® Damp Proofing Slurry

DAMP-PROOFING AND WATERPROOF COATING

PRODUCT DESCRIPTION

Sika® Damp Proofing Slurry is a one part 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

Sika® Damp Proofing Slurry is used for:
- 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

CHARACTERISTICS / 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 toxic
- Conforms to BS 8102:2009 as a polymer-cement based waterproof coating for Type A shallow basement structures – Grades 1, 2 and 3

APPROVALS / STANDARDS

British Board of Agreement Certificate No. 00/3761 Conforms to the requirements of BS EN 1504-2:2004 Principles 1.3, 2.2 & 8.2, Annex ZA2 Table ZA.2 DoP 02 07 01 01 001 0 000049 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

PRODUCT INFORMATION

Chemical Base	Portland cement selected aggregate and polymers
Packaging	25 kg bags
Appearance / Colour	Cement grey
Shelf Life	6 months from date of production
Storage Conditions	Must be stored properly in undamaged and unopened original sealed packaging in dry and cool conditions.

Density	Fresh mortar density: ~ 2.1 kg/l (1.8 kg/litre powder)		
Compressive Strength	3 days	~ 20 N/mm²	(According to EN 196-1)
	28 days	~ 40 N/mm²	
Modulus of Elasticity in Compression	Static: ~ 18 kN/mm²		
Flexural Strength	3 days	~ 5 N/mm²	(According to EN 196-1)
	28 days	~ 9 N/mm²	
Tensile Adhesion Strength	>1.5 N/mm² (failure in substrate)		
Permeability to Water Vapour	3 MNsg^{-1}		

APPLICATION INFORMATION

Consumption	Dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 2.1 kg/m²/mm (excluding allowances for loss wastage, surface profile and porosity, etc.). 1 unit of 25 kg yields will cover approximately 6.5-7.0m² @2.0mm thickness.
Layer Thickness	1.0 mm min. 2.0 mm max. For damp-proofing use minimum 2.0 mm thickness For waterproofing use minimum 4.0mm thickness
Ambient Air Temperature	+5°C min. / +35°C max.
Substrate Temperature	+5°C min. / +35°C max.
Pot Life	~ 30 minutes at +20°C
Waiting Time / Overcoating	Apply 2nd coat within 24 hours of first coat.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound and free of all traces of contaminants, loose and friable particles, cement laitance, oils and grease etc.
The concrete "pull off" (tensile adhesive) strength must be > 1.0 N/mm².

Substrate 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:
Clean concrete surfaces by bush hammered, gtrit blasted or high-pressure water-jetting (400 bar) in order to remove all previous coatings, any traces of grease, rust, release agents, cement laitance and any other material which could reduce adhesion.
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.
Prefill all cavities, honeycombed concrete, etc, to provide an even surface, free from voids with Sika® Damp-proofing Slurry mixed as a mortar (reduce water in mix to desired consistency).

MIXING

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
Mixing Time: ~ 3 minutes
Mixing Tools
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 into a mixing bucket and add Sika® Damp Proofing Slurry slowly under continual mixing until a uniform lump free consistency is achieved (approx 3 minutes).

APPLICATION

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 hours). 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. 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.

For all applications apply second coat at 90º to the first coat.

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 can be used. Do not pre-wet surface before applying plaster finishes. Do not use gypsum based plasters. Refer to plaster manufacturer for advice for use in damp-proofing works.

CURING TREATMENT

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.

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

LIMITATIONS

Sika® Damp Proofing Slurry does not provide a trafficable 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® Combiflex Adhesive, Sikadur® 31 CF, 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/waterproofing potable water structures use SikaTop® Seal 107.

Finishing plasters may take longer to set when applied over Sika® Damp Proofing Slurry.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 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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