

PRODUCT DATA SHEET

SikaSeal[®]-105 H

2-COMPONENT, POLYMER MODIFIED WATERPROOFING MORTAR



DESCRIPTION

SikaSeal[®]-105 H is a multi-purpose two component polymer modified, pore blocking cementitious mortar for internal or external waterproofing applications.

USES

- Interior and exterior waterproofing and damp-proofing of concrete, brickwork and blockwork
- Waterproofing of basement, cellars, ground facing walls, tanks etc.
- Rigid waterproofing of basement walls in new construction and refurbishment

CHARACTERISTICS / ADVANTAGES

- Efficient, multi-purpose waterproofing
- Good adhesion to various substrates (concrete, stone, masonry, e.t.c.)
- Can be applied by trowel or brush (depending on the mixing ratio A:B)
- Ready to use mortar: A+B components without water addition

APPROVALS / CERTIFICATES

CE-marking and Declaration of Performance as Surface Protection Product - Coating according to EN 1504-2:2004, Principle 2 (Moisture Control) - Method 2.3 and Principle 8 (Increasing Resistivity) - Method 8.3 according to EN1504-9:2008, based on certificate of factory production control issued by notified factory production control certification body and type testing.

PRODUCT INFORMATION

Chemical base	Part A: liquid polymer and additive Part B: cement, selected aggregates and admixtures
Packaging	25 kg units (20 kg bag and 5 kg pail)
Appearance / Colour	Part A: white liquid Part B: grey powder
Shelf life	12 months from date of production
Storage conditions	Store properly in original and unopened, sealed and undamaged packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight. Liquid component must be protected from frost.
Density	(Mix A+B): ~ 1.9 kg/l (fresh mortar density)

TECHNICAL INFORMATION

Compressive Strength	≥ 30.0 N/mm ²	(EN 196-1)
Tensile Strength in Flexure	≥ 6.0 N/mm ²	(EN 196-1)

APPLICATION INFORMATION

Mixing Ratio	Used as slurry: A : B = 1 : 4 (parts by weight) Used as mortar: A : B = 1 : 4.5 - 5 (parts by weight)
Consumption	Dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 1.9 kg/m ² /mm (excluding allowances for loss wastage, surface profile and porosity, e.t.c.).
Layer Thickness	Maximum total thickness of application: 4 mm Maximum layer thickness: 2mm Minimum two coats per application.
Ambient Air Temperature	+8°C min. / +35°C max.
Substrate Temperature	+8°C min. / +35°C max.
Pot Life	~30 minutes (at +20°C)
Waiting Time / Overcoating	Waiting time between layers: 2 hours

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound and free from dust, dirt, loose material, surface contamination as oil or grease or cement laitance. The substrate should be prepared by suitable mechanical preparation techniques, such as high water pressure (400 bar) or grit blasting, water jetting to remove all previous coatings, wire-brushing. Sanding and grind existing ceramic tiles, e.t.c. in order to remove existing coatings and paints, grease, rust, demoulding agents, cement laitance and other products that might reduce adhesion. Dust must be removed using electric vacuum cleaner. If necessary, repair damaged, delaminated or weak concrete using Sika MonoTop®, SikaRep® ranges of mortars.

Smooth down all corners or sharp profile variations (floor and wall intersections, e.t.c.) shaping them in the form of concave coves, using Sika MonoTop® mortar range, in order to improve the efficiency of the application.

Dampen the substrate up to saturation. Avoid standing or condensed water on the surface prior to the application (the surface must have a dark, matt appearance).

Concrete joints, pipe penetrations and all kind of discontinuities in the construction must be sealed and waterproofed using Sikadur® Combiflex® SG system, products from SikaSwell® series or other suitable products.

MIXING

Pour comp. A (liquid) in the correct proportion into a suitable mixing container. While stirring slowly, add the powder to the liquid. Mix with low speed (< 500rpm) hand drill mixer to avoid entraining too much air. Mix thoroughly at least for 3 minutes until homogenous with no lumps, to the required consistency. Mix preferably full bags for best results. Do not use the two components separately (i.e. without mixing them).

APPLICATION

Apply SikaSeal®-105 H by:

- trowel
- brush

Application by trowel:

Apply the first coat using a notched trowel, with firm even pressure onto the substrate in order to achieve a regular, consistent thickness. As soon as the first layer has hardened, apply the second coat by flat trowel, taking care to achieve a uniform and continuous layer.

Brush application:

SikaSeal®-105 H can be applied by flat or soft-haired brush, at least in two layers in 2 directions (cross-wise). Every next coat must be applied when the previous layer is set (hard to the finger nail).

CURING TREATMENT

Protect the fresh material from premature drying (at least for 24 hours) using an appropriate curing method e.g. moist geo-textile membrane, polyethylene sheets, e.t.c.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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