



SikaTop[®] Seal 107

Waterproofing/Damp-Proofing Coating

Technical Data Sheet

DESCRIPTION

SikaTop Seal 107 is a two component polymer modified cementitious waterproof mortar comprising of a liquid polymer and a special cement based mix incorporating admixtures.

USES

- * For interior and exterior waterproofing and damp-proofing concrete, renderings, brickwork and blockwork.
- * For protection of concrete structures against the effects of de icing salts and freeze-thaw.
- * For rigid waterproofing of water tanks, pools, etc.
- * For exterior waterproofing of basement walls in new buildings.
- * Pore/blowhole filling.
- * For waterproofing basement and cellar walls not subject to severe water pressure.
- * For sealing fine "hairline" cracks in concrete structures not subject to movement.
- * Levelling mortar for concrete repair works.

ADVANTAGES

- * Easy to apply by brush or in thin trowel applications.
- * No water required.
- * Pre-measured components.
- * Hand and spray applied.
- * Easy and fast mixing.
- * Excellent adhesion.
- * Protects against concrete carbonation.
- * Protects against water penetration.
- * Suitable for contact with drinking water.
- * Non-corrosive to steel or iron.
- * Overpaintable.
- * BBA approved.

Technical Data (typical)

Mixed colour: Cement grey or white
(Component A: white liquid)
(Component B: grey powder)
(Component B: white powder)

Mixed wet density: 2.0 kg/litre

Application temperature: +8°C min, +35°C max
(Substrate and ambient)

Application thickness per layer: 0.75 mm minimum
1.5 mm maximum
2 coats minimum

MECHANICAL PROPERTIES

28 days @ 20°C RH 55%

3 days 28 days

Compressive strength: 20.0 N/mm² 35 N/mm²

Flexural strength: 6.0 N/mm² 10 N/mm²

Tensile strength: 3.2 N/mm² (water)
(14 days exposure) 4.5 N/mm² (air)

Bond strength: (tensile) 2.0 - 3.0 N/mm²
(Failure in prepared substrate)

E-Modulus (static): 19.0 kN/mm²

Water vapour resistance: 30 MNsg⁻¹

Water penetration: 2 mm = 20 mm of
mortar/concrete

Carbonation resistance: 2 mm = 20 cm of
mortar/concrete

'Working time': 30 minutes
(@20°C)

Approved for potable water contact.
Details and return to service information available on request.

All above values are approximate.

WATERPROOF/DAMP-PROOFING

Applied in 2 layers to give a total thickness of between 1.5 - 2.0 mm.

Refer to Installation Guide and BBA Detail Sheet 3.

Pore/blowhole filling:

Grit blast to remove all contaminants from within pores/blowholes.

Levelling Mortar:

Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed. The resultant surface finish should be profiled for maximum bond.

MIXING

SikaTop 107 Seal should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Shake component A before using. Pour approximately ½ component A into mixing container and add component B slowly while mixing until a uniform lump free consistency is achieved.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Pore/blowhole filling:

SikaTop Seal 107 with a 10% reduction of component A to produce a stiff paste consistency. Tightly trowel into the pores of the surfaces.

Levelling Mortar:

Apply the mixed **SikaTop Seal 107** using a fibre brush (available from **Sika Ltd**) applied with horizontal brush strokes

Apply a second coat of **SikaTop Seal 107**, applied with vertical brush strokes as soon as the first coat has hardened sufficiently

Application by trowel may be carried out by a 10% reduction of component A.

- * **SikaTop Seal 107** is not a decorative treatment and may display signs of "blooming" after rain or in damp weather conditions. This does not affect the quality of the coating, in any way. Where **SikaTop Seal 107** will be visible after completion of the works, then the off-white colour, which is aesthetically more pleasing, should be used.

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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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure **SikaTop Seal 107** immediately after application for a minimum of 3 - 5 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or other approved method.

- * **SikaTop Seal 107** does not provide a traffickable finish. Use **Sika® 1 Finishing Mortar** for trafficked surfaces or protect with a **SikaTop 77** or **SikaCem® 810** bonded screed.
- * **SikaTop Seal 107** can be overpainted. A solvent based coating must be used.
- * 3 coats may be required in areas of severe infiltration.
- * Special attention is required to avoid puncturing the waterproof coating with fixings. These should be accommodated either by surface bonding with **SikaDur® 31** or **Sikaflex® 11FC**.
- * Do not exceed maximum layer thickness.
- * Ensure associated Sika products and construction materials also have DWI approval when used in structures where DWI compliance is required.
- * If intercoat period exceeds 24 hours, lightly grit blast surface.
- * Apply only to prepared, sound substrates.
- * Protect freshly applied material from freezing and rain.
- * **SikaTop Seal 107** will not bond to surfaces that have been treated previously with a water repellent.

CLEANING

Remove **SikaTop Seal 107** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.0 kg/m²/mm (2.0 kg/litre)
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).