

PRODUCT DATA SHEET

SikaTop® Seal-107 Elastik

ELASTIC WATERPROOFING DAMP-PROOFING CEMENTITIOUS SLURRY

DESCRIPTION

SikaTop® Seal-107 Elastik is a two part polymer modified, elastic cementitious waterproof mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures.

USES

SikaTop® Seal-107 Elastik is used for:

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Rigid waterproofing of basement walls in new construction and refurbishment
- Pore / blowhole filling
- Waterproofing basement and cellars
- Sealing fine "hairline" cracks in concrete structures (not subject to movement)
- Waterproofing of bathrooms, showers, terraces, balconies, swimming pools before the application of ceramic tiles bonded with adhesives

CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush or in thin trowel applications
- No water required
- Prebatched components
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion on prepared substrates
- Protects concrete against carbonation
- Protects against water penetration
- Non-corrosive to steel or iron
- Elastic
- Can be applied on both horizontal and vertical surfaces
- Approved for potable water contact

APPROVALS / CERTIFICATES

Approved for potable water contact according to BS 6920 – Hacettepe University, Faculty of Pharmacy, D.C.C (B.30.2.HAC.0.AP.00.00/2006-002) – (03.01.2006)

Approved for potable water contact - Istanbul Technical University, Faculty of Civil Engineering, Dept. of Environmental Engineering – (November 2000)
Testing of non-metallic materials for use with drinking water (BS 6920 : 2000) –EGE University – 22.08.2016

PRODUCT INFORMATION

Composition	Part A: liquid polymer and additive Part B: portland cement selected aggregate and admixtures	
Packaging	15 kg Set (A+B) Part A: 5 kg pail Part B: 10 kg bag	30 kg Set (A+B) Part A: 10 kg pail Part B: 20 kg bag
Appearance / Colour	Part A: white liquid Part B: grey powder Mixed product: cement grey	
Shelf life	12 months from date of production.	

Storage conditions	Stored properly in undamaged and unopened original sealed packaging in dry and cool conditions. Liquid component must be protected from frost.
Density	Powder: ~1.170 kg/l Fresh mortar density: ~ 1.70 kg/l

APPLICATION INFORMATION

Mixing Ratio	Used as slurry: A : B = 1 : 2 (parts by weight) Used as mortar: A : B 1 : 2.5 (parts by weight)						
Consumption	Dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 1.7 kg/m ² /mm (excluding allowances for loss wastage, surface profile and porosity, etc.). 1 unit of 30 kg yields ~ 17.6 l of mortar.						
Layer Thickness	0.75 mm min. 1.5 mm max.						
Ambient Air Temperature	+8°C min. / +30°C max.						
Substrate Temperature	+8°C min. / +30°C max.						
Waiting Time / Overcoating	Waiting time between coats <table border="1"> <tr> <td>+10°C</td> <td>~ 12 hours</td> </tr> <tr> <td>+20°C</td> <td>~ 6 hours</td> </tr> <tr> <td>+30°C</td> <td>~ 3 hours</td> </tr> </table> <p>If waiting time period exceeds 24 hours, lightly blastclean the surface.</p>	+10°C	~ 12 hours	+20°C	~ 6 hours	+30°C	~ 3 hours
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Curing Treatment	It is essential to cure SikaTop® Seal-107 Elastik immediately after application for a minimum of 3 to 5 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or similar approved methods.						

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.

General:

The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, blastcleaning, scabblers etc. and properly pre-wetted to a saturated surface dry condition.

For pore / blowhole filling:

Blastclean to remove all contaminants including from within the pores / blowholes.

MIXING

SikaTop® Seal-107 Elastik, must be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle (max. 500 rpm). A normal concrete free fall mixer is NOT suitable. ~ 3 minutes should be mixed.

APPLICATION

Shake part A before using it. Pour approximately half of part A into the mixing container and add part B slowly while mixing. Add the remainder of part A and

continue mixing until a uniform lump free consistency is achieved. The surface must be pre-wetted to a saturated surface dry condition before application.

As a slurry:

Apply the mixed SikaTop® Seal-107 Elastik either mechanically, by spray or by hand using a stiff brush.

Applied in the same direction.

Apply the 2nd coat of SikaTop® Seal-107 Elastik, applied by brush in crosswise direction to the first application as soon as first coat has hardened.

As a mortar:

When SikaTop® Seal-107 Elastik is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 80% of part A (~ 1A : 2.5B). Apply the 2nd coat of SikaTop® Seal-107 Elastik as soon as the first coat has hardened. For pore / blowhole filling, tightly trowel into the pores / blowholes of the surface.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

Hardened / cured material can only be removed mechanically.

IMPORTANT CONSIDERATIONS

SikaTop® Seal-107 Elastik is not a decorative treatment and may display signs of "blooming" after rain or in damp weather. This does not affect the performance of the coating in any way.

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Avoid application in direct sun and/or strong wind. Do not add water in any circumstances. Apply only to sound, prepared substrates. Do not exceed maximum layer thickness.

For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.5 to 2.0 mm. In areas of severe water penetration, three coats might be required.

Protect freshly applied material from freezing conditions and rain etc.

SikaTop® Seal-107 Elastik does not provide a traffickable finish. Use Sika®-1 Finishing Mortar for trafficked surface or protect with SikaLatex® bonded screed. For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating with fixings. These must be accommodated by surface bonding with either SikaDur®-31 or SikaFlex® 11 FC etc.

When used in contact with drinking structures, ensure that all associated products and construction materials also comply with the local regulations for drinking water contact.

Application below recommended temperatures may lead to longer hardening and curing time of the product.

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.

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

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.

Sika Yapı Kimyasalları A.Ş.

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