BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-107 Seal NG

Waterproofing damp-proofing cementitious slurry.

DESCRIPTION

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

USES

SikaTop® Seal-107 NG 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)
- Levelling mortar for concrete repair works.
- SikaTop® Seal-107 NG can be used for concrete protection, in particular it is:
- Suitable for protection against ingress (Principle 1, method 1.3 in EN 1504-9)
- Suitable for moisture control (Principle 2, method 2.2 in EN 1504-9)
- Suitable for increasing for the resistivity (Principle 8, method 8.2 of EN 1504-9).

FEATURES

- 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
- Protects concrete against carbonation
- Protects against water penetration T
- Non-corrosive to steel or iron
- Overpaintable
- Approved for potable water contact

CERTIFICATES AND TEST REPORTS

British Board of Agrement Certificate No. 95/3174.

PRODUCT INFORMATION

Composition	Part A: liquid polymer and additive. Part B: portland cement selected aggregate and admixtures.
Packaging	Part A 5kg Part B 20kg
Appearance and colour	Part A: White Liquid Part B: Grey powder Mixed product: Cement Grey.
Shelf life	12month from the date of production, stored in an unopened packaging.
Storage conditions	Store properly in undamaged and unopened original sealed packaging in dry and cool conditions. Liquid component must be protected from frost.
Density	Fresh mortar density: ~ 2.00 kg/l.

TECHNICAL INFORMATION

Compressive strength	3 days	~ 20 N/mm²	(EN 196-1)
	28 days	~ 35 N/mm²	
Modulus of elasticity in compression	Static: ~ 8.4 kN/mm²		
Tensile strength	Cured in water:	~ 3.2 N/mm² after 14 days exposure	(DIN 53455)
	Cured in Air:	~ 4.5 N/mm² after 14 days exposure	
Consumption	Consumption is dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 2.0 kg/m²/mm (excluding allowances for loss wastage, surface profile and porosity, etc.). ▪ 1 unit of 20 kg yields ~ 10 litres of mortar ▪ 1 unit of 5 kg yields ~ 2.5 litres of mortar		
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 to overcoating	+10°C +20°C +30°C	~ 12 hours ~ 6 hours ~ 3 hours	If waiting time period exceeds 24 hours, lightly blastclean the surface. SikaTop® Seal-107 NG can be overpainted using solvent based primers or coatings. SikaTop® Seal-107 NG must cure for a minimum of 7 days before overcoating

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.

LIMITATIONS OF USE

- SikaTop® Seal-107 NG 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.
- 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 condi-

tions and rain, etc.
- SikaTop® Seal-107 NG does not provide a trafficable finish.
- For waterproofing / damp-proofing works, special at tention is required to avoid puncturing the waterproof coating with fixings. These must be accommodated by surface bonding with either Sikadur®-31 CF Normal or Sikaflex®-11 FC, etc.
- When used in contact with drinking structures, ensure that all associated Sika® products and construction materials also comply with the local regulations for drinking water contact.

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.

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**: Blast clean to remove all contaminants including from within pores / blowholes. **As a 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 must be profiled to achieve maximum bond strength.

MIXING

Used as slurry: A : B = 1 : 4 (parts by weight)
Used as mortar: A : B = 1 : 4.5 (parts by weight)
Mixing Time: ~ 3 minutes. Mixing Tools: SikaTop® Seal107 NG 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.

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 NG either mechanically, by spray or by hand using a stiff brush. Apply the first layer in one direction. Apply the 2nd coat of SikaTop® Seal-107 NG, by brush, in a crosswise direction to the first application as soon as the first coat has hardened. **As a mortar**: When SikaTop® Seal-107 NG is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of part A (~ 1A : 4.5B). Apply the 2nd coat of SikaTop® Seal-107 NG as soon as the first coat has hardened. **For pore / blowhole filling**: tightly trowel into the pores / blowholes of the surface.

CURING TREATMENT

It is essential to cure SikaTop® Seal-107 NG 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.

CLEANING OF EQUIPMENT

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

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 MANUFACTURING NIGERIA LIMITED
10,Western Industrial Avenue, Isheri
Riverview Estate
Lagos - Ibadan Expressway, Ogun State
NIGERIA
Web: nga.sika.com