

PRODUCT DATA SHEET

SikaTop[®]-107 Seal Plus Ultra

Ultra high performance acrylic polymer modified cementitious waterproofing coating

DESCRIPTION

SikaTop[®]-107 Seal Plus Ultra is a highly flexible, two part, ultra high performance acrylic polymer modified cementitious liquid applied waterproofing coating system with high tensile strength and elongation. It comprises of a liquid polymer and a cement based mix incorporating special additives. It is available in a user friendly pre-packed kit form. It also has excellent abrasion resistance due to high Shore A value.

USES

Waterproofing applications for various structures such as:

- Wet areas like toilets, kitchen sunks, utility areas, sunk slabs
- Terraces, balconies, sunshades, etc.
- Lift pits, sumps, etc.
- Podium decks ,planters,etc
- Flat and small roofs
- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Swimming pools, fountains, water bodies, etc
- RCC gutters, drains,etc
- Basement and retaining walls
- Potable water holding RCC tanks like reservoirs,over-head water tanks ,etc

CHARACTERISTICS / ADVANTAGES

- Pre-batched components ,no additional water,etc required
- Easy and fast mixing
- Easy to apply by brush or flat trowel
- Bonds well to all damp substrates
- Excellent adhesion to reinforced concrete, mortar or masonry
- Reduces saltpetre action due to salts in plastering mortar
- Protects concrete from chloride penetration and carbonation
- Good abrasion resistance under normal wear and tear
- Non-corrosive to steel and iron
- Flexible enough to bridge minor hairline cracks
- Requires protective overlay for long term durability

PRODUCT INFORMATION

Chemical base	Part A	Acrylic polymer
	Part B	Portland cement with selected aggregates and additives
Packaging	Part A+B pre-batched	30 kg set
	Part A	10 kg bucket (Liquid)
	Part B	20 kg bag (Powder)

Appearance / Colour	Part A+B mixed	Grey slurry
	Part A	Milky white liquid
	Part B	Grey powder

Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10°C and +35 °C. Liquid component must be protected from frost.
Density	~1.6 kg/l (Mixed mortar) at 27°C,50% RH

TECHNICAL INFORMATION

Shore A hardness	≥ 90 (14 days)	(ASTM D2240)
Tensile strength	≥ 1 MPa (14 days)	(ASTM D412)
Elongation	≥ 120 % (14 days)	(ASTM D412)
Tensile adhesion strength	≥ 1 MPa (Pullout)	(ASTM D 4541)
Water penetration under pressure	≈ NIL penetration when subjected to 5 bar water pressure for 72 h	(BS EN 12390-8)

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 1 : 2 (by weight)	
Consumption	Approx 1.5 to 2.0 kg/m ² in 2 coats Note: <ul style="list-style-type: none"> ▪ The consumption may vary depending on application area, substrate type, substrate roughness, surface profile,absorption of the surface and thickness required. ▪ For critical transition areas and not so good substrates 3 coats may be recommended 	
Ambient air temperature	+10 °C min. / +40 °C max.	
Substrate temperature	+10 °C min. / +40 °C max.	
Open time	≈ 45 -60 minutes at 27°C (Workable time post mixing,may vary at site depending on humidity,temperature,ventilation,etc)	
Waiting time / Overcoating	Minimum 6-8 hrs between 2 coats .Time is approximate and may be affected by changing ambient conditions like temperature,relative humidity,ventilation,etc	
Curing treatment	Minimum 3-5 days of moist cure .Ponding (if required) should be done only after 7 days Note: Protective screed /Plaster/PE Sheet/Tile Adhesive,etc overlay is mandatory for these type of cementitious coatings.This should be done preferably after 7 days to allow for full cure .Refer to ASTM D5957 for more information.	
Applied product ready for use	Foot traffic	After 24 hrs
	Water Ponding/Protective Screed	After 7 days

SYSTEM INFORMATION

System structure

Layer	Product
Base coat-1st	SikaTop®-107 Seal Plus Ultra
Intermediate	(Optional) Glass fabric reinforcement Sika® Fabric-50 between the coats-Required only if further enhancement of tensile strength is required or at detailing areas like corners ,junctions,etc for high demand applications
Top coat-2nd	SikaTop®-107 Seal Plus Ultra
Protective	Any suitable protective overlay like screed/plaster/tile adhesive,etc

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.

IMPORTANT CONSIDERATIONS

- Protective screed /Plaster/ Tile adhesive or any other form of protection is necessary for SikaTop®-107 Seal Plus Ultra for long term durability.This is the inherent necessity for all types of cementitious waterproofing coatings .
- For testing purposes ,coating film prepared should be of DFT 1.5 -2 mm as per standard practice or else the universal testing machine used for measuring tensile strength and elongation will not be able to grip the specimen properly and give erroneous result

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and with a minimum pull off strength of 1.5 N/mm².
- The substrate must be free of all traces of contaminants, loose and friable particles, cement laitance, oils and grease, wax, curing compounds, water repellent coatings etc.
- The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, grinding, blast cleaning etc.
- High spots must be removed by grinding.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application

of the product, preferably by brush and/or vacuum.

- Any wax based curing compounds or water repellent coatings must be fully removed by scraping or grinding.
- All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of minimum 25 mm × 25 mm

Mixing

- Use Electric drill paddle mixer (> 700 W, 300 to 500 rpm)
- Add powder to liquid and stir from low to higher speed to achieve homogeneous consistency, minimum 3 mins mixing is required
- Pour the entire quantity of liquid (10kg) in a large bucket ,first add approx 2/3 rd quantity (13-15kg) of the powder slowly into the liquid and mix from low to high speed to ensure no lumps are formed .Subsequently ,add the balance 1/3rd (7-5kg) powder into the mix and continue mixing till a final uniform homogeneous color is obtained

Note: Dividing the powder in 2 lots ensures ease of mixing ,mix only that much quantity which can be consumed within the opentime

Application Tool

- Hard bristled hair brush
- Flat trowel

IMPORTANT

SikaTop®-107 Seal Plus Ultra may display signs of “blooming” after rain or in damp weather. This does not affect the performance of the coating in any way.

IMPORTANT

Do not apply in direct sun and/or strong wind.

IMPORTANT

In areas of severe water penetration firstly seal the source of leakage using other means of waterproofing like plugging mortars & Cementitious/Polyurethane Injection(depending on severity) .In such cases three coats is recommended

IMPORTANT

Protect freshly applied material from freezing conditions, rains etc.

Detailing

- Seal all penetrations with a suitable Sika sealant like SikaSwel® S-2 or Sikagard® 694 F(I) underwater setting epoxy putty to prevent any leakage from the periphery of the down take pipes.
- Additionally, if so desired cut Sika® Fabric-50 to desired dimensions for detailing on intersections and also around pipe penetration by embedding it with the SikaTop®-107 Seal Plus Ultra.

- Sika® SealTape F is recommended to be used as a component of a composite sealing system in conjunction with SikaCeram® tile adhesive and ceramic tiles to achieve water tightness in wet rooms and around wet areas.

Application & Protection

- Thoroughly pre-wet the prepared substrate before application
- Keep the surface wet and do not allow to dry ,maintain SSD condition
- Before application remove excess water, e.g. with a clean sponge.
- The surface must appear a dark matt appearance without shine and surface pores and cavities must not contain water.
- Apply the first coat of SikaTop®-107 Seal Plus Ultra with a hard bristled hair brush applied in the same direction and leave to harden for 6-8 hours.
- (Optional) Wherever coating is to be reinforced with glass fabric, lay Sika® Fabric-50 into the freshly applied base coat and embed firmly into the wet coat with brush.
- Apply the second coat in crosswise direction to the first application as soon as first coat has hardened.
- Protect with an overlay of Screed/ Plaster/Tile Adhesive,etc after curing as defined in the previous sections

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 exact product data and uses.

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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