

PRODUCT DATA SHEET

SikaTop®-107 Seal Plus IN

High performance acrylic polymer modified cementitious waterproofing coating

DESCRIPTION

SikaTop®-107 Seal Plus IN is a flexible, two part, high performance acrylic polymer modified cementitious liquid applied waterproofing coating system. It comprises of a liquid polymer and a cement based mix incorporating special admixtures. It is applied to concrete and mortar to prevent water infiltration with flexibility. It is available in a user friendly pre-packed kit form. It is suitable for waterproofing of drinking water tanks

USES

- Waterproofing applications for various structures such as:
 - Potable water holding tanks like reservoirs, overhead water tanks, etc (CFTRI Certified)
 - Raw water concrete tanks, reservoirs, waste water tanks
 - Terraces, balconies, sunshades, etc.
 - Flat and small roofs
 - Basement and retaining walls
 - Swimming pools, fountains, water bodies, canals
 - RCC gutters, drains and planter boxes
 - Wet areas like toilets, kitchen, utility, sunk slabs
 - Lift pits, sump, etc.

- 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
- Pore / blowhole filling
- Sealing fine static cracks in concrete structures not subject to movement
- Sealing internal basement walls against dampness

CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush, spray or flat trowel
- No additional water is required to make the slurry
- Pre-batched components with consistent quality
- Easy and fast mixing
- Highly water resistant, reduces saltpetre action and prevents carbonation
- Protects concrete from chloride penetration
- Non-corrosive to steel and iron
- Flexible enough to bridge hairline crack
- Bonds well to all damp substrates
- Good abrasion resistance
- Good adhesion to reinforced concrete, mortar or masonry
- Fast curing

APPROVALS / STANDARDS

- Tested and certified by Central Food Technological Research Institute (CFTRI), Mysore as safe for contact with drinking water
- Tested as per USFDA Method 175:300 for contact with drinking water for both single and repeated use

PRODUCT INFORMATION

| | | |
|---------------|--------|--|
| Chemical base | Part A | Acrylic polymer |
| | Part B | Portland cement with selected aggregates and additives |

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|----------------------------|---|--------------------|
| Packaging | Part A+B pre-batched | 7 kg set |
| | Part A | 2 kg container |
| | Part B | 5 kg bag |
| | | |
| | Part A+B pre-batched | 35 kg set |
| | Part A | 10 kg container |
| | Part B | 25 kg bag |
| Appearance / Colour | Part A+B mixed | Cement 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. | |

TECHNICAL INFORMATION

| | | |
|---|-------------------------------------|-----------------|
| Shore A hardness | ~90 | (ASTM D2240) |
| Tensile strength | ~1.3 N/mm ² | (ASTM D412) |
| Elongation at break | ~110 % | (ASTM D412) |
| Tensile adhesion strength | ~1 N/mm ² | (ASTM D7234) |
| Water penetration under pressure | ~0 mm penetration at 5 bar for 72 h | (BS EN 12390-8) |

APPLICATION INFORMATION

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|-----------------------------------|--|---------------------------|---------------------|
| Mixing ratio | Part A : Part B = 1 : 2.5 (by weight) | | |
| Consumption | Approx 1.5 to 2.0 kg/m ² in 2 coats Note: The consumption will vary depending on application area, substrate type, substrate roughness, surface profile, absorption of the surface and thickness required. | | |
| Ambient air temperature | +10 °C min. / +40 °C max. | | |
| Substrate temperature | +10 °C min. / +40 °C max. | | |
| Pot life | ~45 minutes (100 g mass, +27 °C) | | |
| Waiting time / Overcoating | Base layer | Overcoating layer | Waiting time |
| | SikaTop®-107 Seal Plus IN | SikaTop®-107 Seal Plus IN | ~6 h |
| | SikaTop®-107 Seal Plus IN | Screed / Plaster | ~3 d |
| | Note: Above values are at +30 °C and 50 % relative humidity. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. | | |

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|---|-------------------------------------|-----------------|
| Applied product ready for use | Foot traffic | ~1 d |
| | Water immersion | ~7 d |
| IMPORTANT Applied SikaTop®-107 Seal Plus IN must not be subjected to ponding before 7 days. Contact Sika Technical Services and refer to ASTM D5957 for more information. | | |
| Fresh mortar density | ~1.90 kg/L (Part A+B mixed, +27 °C) | (EN ISO 2811-1) |

SYSTEM INFORMATION

| | | |
|---|--------------|---------------------------|
| System structure | Layer | Product |
| | Base coat | SikaTop®-107 Seal Plus IN |
| | Top coat | SikaTop®-107 Seal Plus IN |
| IMPORTANT For larger application areas and high demanding applications, use a glass fabric reinforcement Sika® Fabric-50 between the coats. For normal exposures, usage of Sika® Fabric-50 is optional. | | |

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.

FURTHER DOCUMENTS

Sika Method Statement : SikaTop®-107 Seal Plus IN

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

EQUIPMENT

Mixing

- Electric drill paddle mixer (> 700 W, 300 to 500 rpm)

Application

- Hard bristled brush
- Squeegee
- Flat trowel

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and with a minimum pull off strength of 1.0 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 x 25 mm.

MIXING

IMPORTANT

Do not add water in any circumstances.

IMPORTANT

For bigger pack, mix only the quantity which can be used within the pot life.

Waterproofing coating

1. Pour full quantity of SikaTop®-107 Seal Plus IN Part A into a clean mixing container.
2. While stirring slowly, add SikaTop®-107 Seal Plus IN Part B.
3. Mix thoroughly for 3 minutes, until free from lumps and smooth consistency is achieved.

Waterproofing mortar

1. Pour 90 % of SikaTop®-107 Seal Plus IN Part A into a clean mixing container.
2. While stirring slowly, add SikaTop®-107 Seal Plus IN Part B.
3. Mix thoroughly for 3 minutes, until free from lumps and smooth consistency is achieved.

APPLICATION

IMPORTANT

SikaTop®-107 Seal Plus IN may display signs of “bloom-

ing" 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, three coats might be required.

IMPORTANT

Protect freshly applied material from freezing conditions, rains etc.

Detailing

1. Seal all penetrations with a suitable Sika sealant like SikaSwell® S-2 or Sikagard® 694 F(I) epoxy putty to prevent any leakage from the periphery of the down take pipes.
2. 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 IN.
3. 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.

Waterproofing coating

1. Thoroughly pre-wet the prepared substrate (2 hours recommended) before application. Keep the surface wet and do not allow to dry. Before application remove excess water, e.g. with a clean sponge. The surface must appear a dark matt appearance without shining and surface pores and cavities must not contain water.
2. Apply the first coat of SikaTop®-107 Seal Plus IN with a hard bristled brush or broom applied in the same direction and leave to harden for 2 to 6 hours.
3. (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.
4. Apply the second coat of SikaTop®-107 Seal Plus IN in crosswise direction to the first application as soon as first coat has hardened.

Waterproofing mortar

1. Thoroughly pre-wet the prepared substrate (2 hours recommended) before application. Keep the surface wet and do not allow to dry. Before application remove excess water, e.g. with a clean sponge. The surface must appear a dark matt appearance without shining and surface pores and cavities must not contain water.
2. Apply the first coat of SikaTop®-107 Seal Plus IN by a flat trowel applied in the same direction and leave to harden for 2 to 6 hours. For pore / blowhole filling, tightly trowel into the pores / blowholes of the surface.
3. (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 trowel.
4. Apply the second coat of SikaTop®-107 Seal Plus IN in crosswise direction to the first application as soon as first coat has hardened.

Note: If the second coat is applied 12 hours or later to first coat, the first coat shall be slightly pre-wetted by using a fine spray.

IMPORTANT

Slight fabric marks may be visible after application of the second coat, but it will have no adverse bearing on the performance of the waterproofing system.

Protection

1. The top coat while wet, sprinkle clean quartz sand.
2. Once top coat has sufficiently cured, apply protection plaster, mortar, screed or any other adhesive layer. A bonding agent may be necessary.
3. Alternatively, a separation layer like PE sheet or geotextile can be used before any plaster / screed / interlocking paver blocks.

CURING TREATMENT

Cure SikaTop®-107 Seal Plus IN for minimum 7 days to ensure full cement hydration and minimise cracks. Use wet hessian cloth, spray curing or similar approved methods during the recommended period of curing.

CLEANING OF TOOLS

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

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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Product Data Sheet

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