



METHOD STATEMENT

SIKATOP® SEAL-107

USES: WATERPROOFING FOR SWIMMING POOL USING
SIKATOP® SEAL-107 UNDERNEATH TILING WORK

SIKA LIMITED (VIETNAM)

1 SCOPE

This method statement describes the step by step application of waterproofing mortar for swimming pool using Sikatop® Seal-107 underneath tiling work.

2 PRODUCTS DESCRIPTION

Sikatop® Seal-107 is cementitious based, 2-component polymer modified waterproofing slurry coating apply to concrete and mortar to prevent water infiltration.

Uses

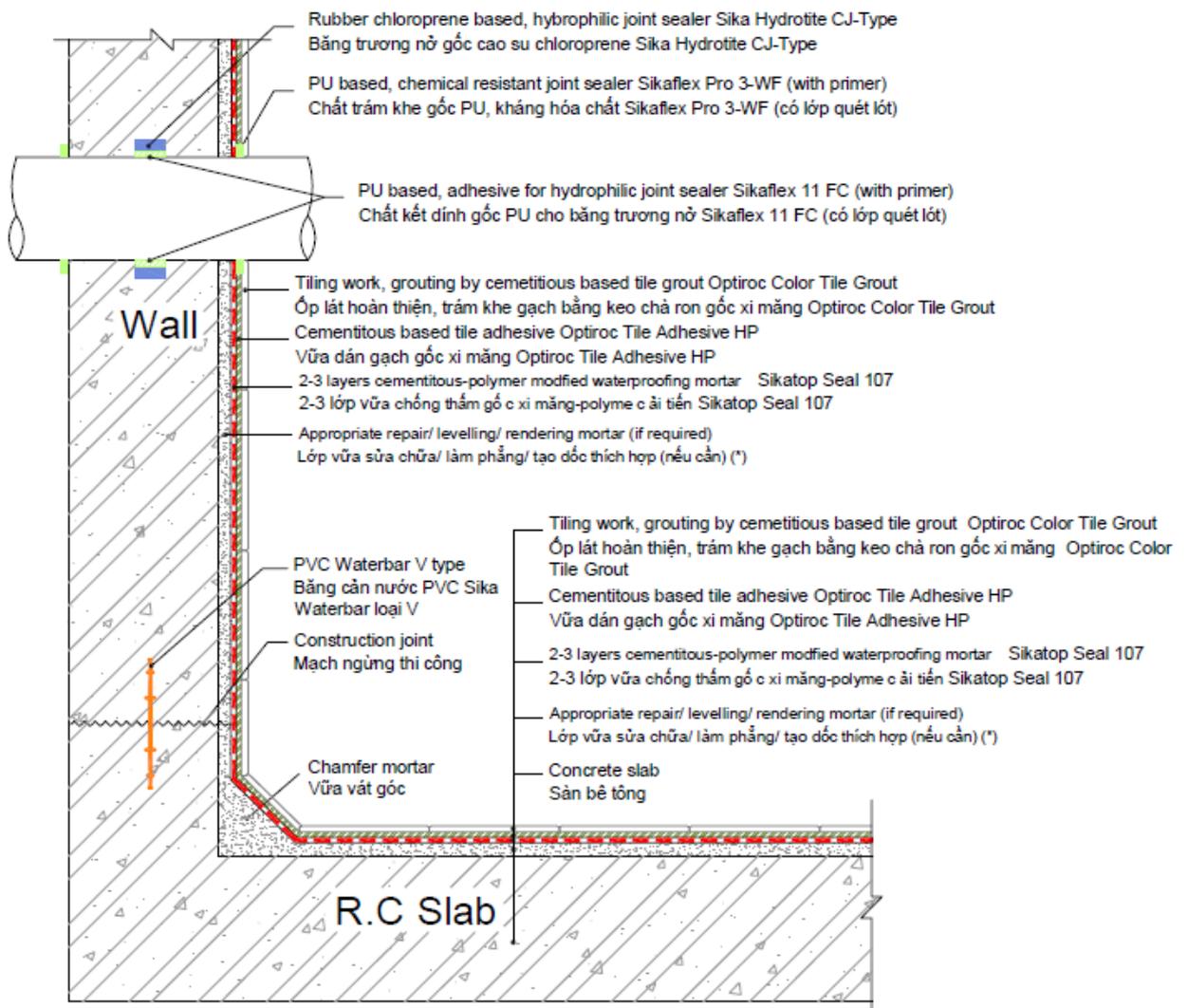
SikaTop® Seal-107 can be used for external and internal water-proofing, repair work and protection from frost and de-icing agents.

Areas of application include potable water tank, basements, terraces and balconies, bridges, retaining walls, sealing hairline cracks, not subjected to movement.

Characteristics/ Advantages

- Good adhesion even on mat-damp surfaces.
- Easy mixing and application
- Good adhesion to sound surfaces
- Effective barrier against carbonation process
- Non-toxic
- Non corrosive
- Slightly flexible
- Can be spray applied

3 SYSTEM BUILD-UP



(*): Please refer to concrete repair product range or contact to Sika technical department for more information

System Build-up

4 APPLICATION

4.1 Substrate Preparation

- Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles.
- Prepare and clean concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination (e.g. curing compound) and all existing coatings are removed.

The resultant surface finish shall be profiled for maximum bond.

4.2 Repair/ Levelling / Rendering Mortar (if required)

a. Repairing works

Using appropriate Sika repair product range (Sika Monotop®, Sikadur®, SikaGrout®, etc.) to repair concrete substrate defects such as cracks, voids, honeycombs (if any). Refer to relevant PDS for more information.

b. Levelling/ Rendering works

- When required to provide a smooth and level surface, leveling screed or render (with minimum compressive strength 7.5 Mpa - at 28 days) shall be placed before the application of the waterproofing compound.
- Typical design of levelling/ rendering mortar as below:
 - Mixing ratio:
Cement : sand = 1 : 2.5 - 3 (parts by weight, sand in S.S.D condition) or
Cement : sand = 1 : 3 - 3.7 (parts by volume, sand in S.S.D condition)
 - Adjust consistency with a mixture of water and Sika Latex, by using a ratio of Sika Latex : water = 1 : 3.
 - Coverage: 1 ltr Sika Latex covers approx. 1 m² of 2 cm thickness of mortar.
- The preparation and application of these levelling compounds shall be performed according to the state of the art.

In particular, to improve adhesion, a bonding bridge using Sika Latex shall be used. Typical design of such bonding bridge slurry as below:

- 1 ltr Sika Latex + 1 ltr Water + 4 kg cement = slurry consistency
- Coverage: the above slurry covers approx. 4 m²

Mix the dry cement sand to gauging Sika Latex solution until brushable consistency. Apply the bonding bridge using a stiff brush. Work well the slurry onto the substrate.

- Subsequent application (levelling screed/render) shall be carried out while the bonding bridge is still tacky – wet on wet.
- After placing the leveling screed/render, cure properly the freshly placed mortar with wet hessian. Do not use curing compound as this might result in adhesion failure of the waterproofing compound.
- Making the chamfer at the corners.
- Maintain the wet curing for a period of at least 7 days.

4.3 Application of waterproofing layer Sikatop Seal-107

a. Mixing

- Mixing in a clean container by slowly adding the powder component to the liquid component and stirring with slow speed electric mixer (500 r.p.m.)
- DO NOT add any water!

b. Application

- Surfaces have to be thoroughly saturated with water prior application of first coat of SikaTop® Seal-107, but no standing water.
- Whilst the substrate is still damp from saturation, apply the first coat at consumption of approx. 2.0 kg/m².
- Leave to harden for approximately 4-8 hours at the temperatures above 20°C before applying the second coat at consumption of approx. 2.0 kg/m² in crosswise direction to the first application. For slurry consistency, apply with a hard plastic bristled brush or broom.
- For floor applications, to avoid risk of damage to the first coat, it is recommended that the second coat be applied after 24 hours. If the second coat is applied 12 hours or later, the slightly pre-wetted, preferably using a fine spraying.

Notes: please conduct the trial area first before actual application on big area.

c. Curing

- It is essential to cure Sikatop® Seal-107 immediately after application for a minimum of 3 to 5 days to ensure full cement hydration and to minimize cracking. Use polythene sheeting or similar approved methods.
- Further treatment (e.g. tiling works) shall be carried out after a waiting period of at least 7 days at 20°C.

d. Tiling works

- Tiling works shall be proceed using tile adhesives that is suitable for pool such as Optiroc Tile Adhesive HP.
- Grouting work shall be proceed using tile grout that is suitable for pool such as Optiroc Color Grout.
- Tiling works shall be carried out according to the latest state of the art.

e. Detailing

Generally, failures in waterproofing system occur at details such pipe penetration, anchor, gully etc... So a particular attention shall be given and guideline provided in the enclosed drawings shall be followed.

Please refer to relevant PDS for more information.

DISCLAIMER

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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