



METHOD STATEMENT

SIKA® POXITAR F

USES: WATERPROOFING FOR WASTE WATER TANK

SIKA LIMITED (VIETNAM)

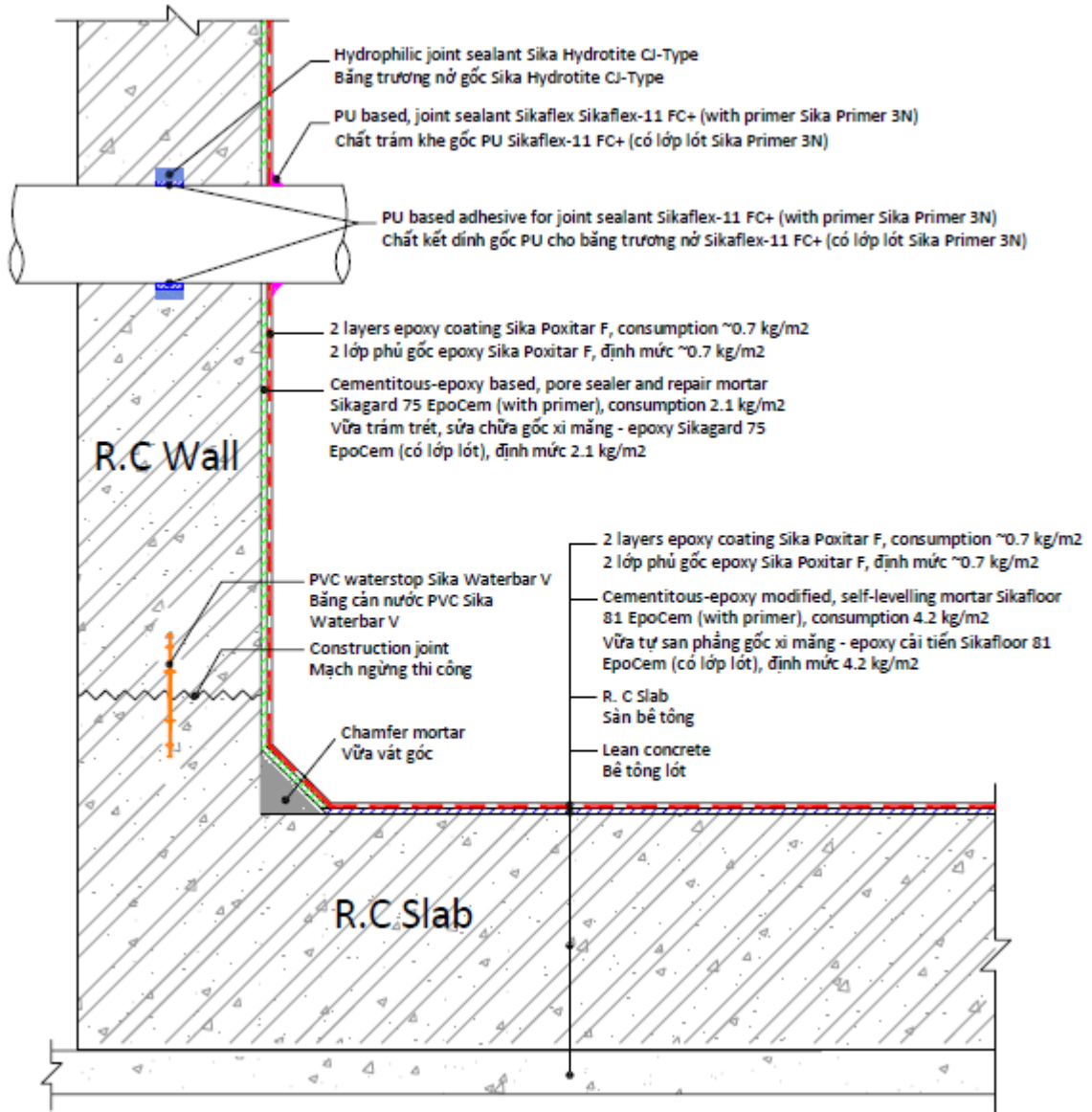
BUILDING TRUST



1 SCOPE

This method statement describes the step by step procedure for application waterproofing system using epoxy coating Sika® Poxitar F.

2 TYPICAL SYSTEM BUILD-UP



Typical system build-up

3 PRODUCTS DESCRIPTION

3.1 Sikafloor Repair EpoCem Module

Sikafloor Repair EpoCem Module is 2-components, water based epoxy resin dispersion.

Uses:

Sikafloor Repair EpoCem Module is an universal primer for Sikafloor®-81 EpoCem® New HC and Sikagard® -75 Top coat.

3.2 Sikafloor®-81 EpoCem® New HC

Sikafloor®-81 EpoCem® New HC is 3-pack, epoxy-modified cementitious, self-levelling mortars.

Uses:

Sikafloor®-81 EpoCem® New HC is used as a temporary moisture barrier (min. 2 mm thick) for mentioned above system.

3.3 Sikagard® -75 EpoCem

A three component epoxy-modified cementitious mortar.

Uses:

Sikagard® -75 EpoCem is used as a thin sealer coat and temporary moisture barrier (1.5 mm thick) for mentioned above system.

3.4 Sika Poxitar F

Sika® Poxitar F is a resistant 2-pack reaction hardening coating of low solvent content based on an epoxy-anthracene-oil combination with mineral fillers.

Uses:

Sika® Poxitar F is used as a waterproofing, chemical coating system for waste water tank.

Characteristics/ Advantages:

- Tough hard, robust abrasion and impact resistant
- Excellent resistance to water, microbes and chemicals
- Can be exposed to water immediately after application

4 APPLICATION

4.1 Application procedures

- Substrate preparation
- Application of Sikagard® -75 for wall
- Application of Sikafloor® -81 EpoCem New HC for slab
- Application of Sika® Poxitar F for wall and slab

4.2 Substrate Preparation

- **Requirement**
 - The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- If in doubt apply a test area first.
- **Substrate preparation**
 - Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
 - 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 shall be carried out using Sikagard®-75 EpoCem (for wall) and Sikafloor®-81 EpoCem New HC for slab.
 - The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.
 - High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
 - Steel and iron surfaces must be sandblasted (SA 2 ½)

4.3 Application of Sikagard®-75 EpoCem for concrete wall

(Refer to Method Statement of Sikagard®-75 EpoCem)

4.4 Application of Sikafloor®-81 EpoCem® New HC® for concrete slab

(Refer to Method Statement of Sikafloor®-81 EpoCem® New HC®)

4.5 Application of coating system Sika Poxitar F

Application of coating system Sika Poxitar F can start when Sikagard 75 and Sikafloor 81 EpoCem are ready for over painting (approx. 12 hrs at 30°C and R. H 75%) - for more information, please refer to relevant PDS.

4.6 Mixing Sika® Poxitar F

- The material is packed in the right proportions. Stir part A (base component) thoroughly prior to application. Add part B (hardener) and mix thoroughly with low speed electric stirrer (with up and down movements).
- When preparing small quantities the mixing proportions stated must be adhered to.
- The mixed material can be used immediately.
- In case of crystallization of part B (hardener) liquify it in a warm water bath (+40° to +50°C) and let it cool down to normal temperature before mixing with part A (base component).

4.7 Coating Sika Poxitar F

- Application of Sika® Poxitar F within pot-life (refer to PDS).
- Application of Sika® Poxitar by brush or roller.
- Application 1st coat of Sika Poxitar F on the prepared surfaces at rate of approx. 0.3 kg/m² for wall and slab.

Leave the Sika Poxitar F to cure before application of any top coat (refer to waiting time for Sika® Poxitar F).

- Application of 2nd coat of Sika Poxitar F at rate of approx. 0.3 kg/m² for wall and slab.

- Application of 3rd coat of Sika Poxitar F at rate of approx. 0.3 kg/m² for slab.

Waiting time between operations up to max. 150 microns dry film thickness:

Waiting time	+5°C	+10°C	+15°C	+20°C	+25°C	+30°C
Min. (hr)	36	30	24	12	8	6
Max. (hr)	96	72	60	48	36	24

The waiting times between applications depend largely on temperature and weather.

If these waiting times cannot be observed, intercoat adhesion problems must be expected and activation will have to be carried out. The best activation method is by light grinding / blasting and followed by thorough dedusting prior to application of the next coat.

4.8 Curing time

- With good ventilation, curing is completed after approx. 8 - 10 days at +20°C.
- Curing also takes place at lower temperatures - below +10°C - but it takes longer (also under water curing).

4.9 Important notes

- Min. substrate temperature +10°C.
- Application temperature minimum +5°C
- Observe safety advice printed on label
- During application in closed rooms, pits and shafts etc. sufficient ventilation must be provided.
- Keep away open light including welding
- In badly lit rooms only electric safety lamps are permitted. The installed ventilation equipment must be spark-proof
- Protect skin with a non-greasy barrier cream prior to application in the sunlight

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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