

# PRODUCT DATA SHEET

## Sika<sup>®</sup>-1 F

### PRE-PACKED WATERPROOFING COMPOUND FOR CONCRETE AND MORTAR SUBSTRATES

#### DESCRIPTION

Sika<sup>®</sup>-1 F is pre-packed liquid blends of additives and selected aggregates. It is mixed with cement to form waterproofing slurry to block the capillaries and pores on the concrete and mortar substrates to provide an effective barrier against the transmission of liquid water.

#### USES

Sika<sup>®</sup>-1 F is suitable for the waterproofing of masonry and concrete structures of private residences such as:

- Flat roofs.
- Balconies, terraces.
- Toilet and wet area.
- Internal and external wall.

#### CHARACTERISTICS / ADVANTAGES

Sika<sup>®</sup>-1 F provides the following beneficial properties in post applied waterproofing:

- Economical.
- Easy to mix, easy to apply.
- Not necessary to mix with water
- Consistency can be for application by brushes, trowel or spraying machine.
- Very good water penetration resistant.
- Good adhesion concrete and mortar substrates.
- Environmental friendly.

#### PRODUCT INFORMATION

<b>Chemical base</b>	Poly Vinyl Acetate and additives
<b>Packaging</b>	2 kg / 6 kg / 18 kg in plastic pails
<b>Shelf life</b>	12 months from date of production if stored properly in unopened, original packaging
<b>Storage conditions</b>	Dry, cool, shaded place between +5°C and +35°C. Protect from direct sunlight.

#### SYSTEM INFORMATION

<b>System Structure</b>	2-3 coats
-------------------------	-----------

#### APPLICATION INFORMATION

<b>Recommended Dosage</b>	Sika <sup>®</sup> -1 F : Cement powder = ~ 1 : 0.6 (parts by weight)
<b>Consumption</b>	~ 0.5 - 0.6 kg/m <sup>2</sup> /coat (depending on type of structures and degree of protection required)

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces must be level, clean, sound and free from oil, grease, laitance and loose particles.

Cracks, porous areas and spalling should be cut out and repair using appropriate products from the Sika-floor®, SikaDur®, Sikagard® and SikaLatex® range of materials.

Substrates must be saturated thoroughly, but no standing water.

### MIXING

- A forced action mixer or drill and paddle mixer should be used for the best result.
- Stirring Sika®-1 F in approx. 1 min before mixing with cement.
- Slowly add the required quantity of cement to total content of Sika®-1 F pail while mixing. Mix continuously in approx. 3 mins. to achieve an even consistency.

### APPLICATION METHOD / TOOLS

Sika®-1 F waterproofing slurry can be applied by brush, broom or by trowel. In each case after applying, the slurry must be worked well into the substrate. Leave to harden for approximately 4-8 hours at the temperatures above +20°C before applying the second coat.

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 after 12 hours or later, the slightly pre-wetted, preferably using a fine spraying.

### CLEANING OF TOOLS

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

### IMPORTANT CONSIDERATION

- DO NOT add any water to the mix and follow the Cement Ratio to Sika®-1 F.
- Always mix full set of Sika®-1 F.
- Concrete or mortar substrates must be cured at least for 14 days before application of Sika®-1 F.
- Trials should be always conducted before application.

#### Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone,  
Nhon Trach Dist., Dong Nai Province,  
Tel: (84-251) 3560 700  
Fax: (84-251) 3560 699  
sikavietnam@vn.sika.com  
vnm.sika.com



Product Data Sheet  
Sika®-1 F  
October 2019, Version 01.02  
020705040010000038

## 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.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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.

## 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-1F-en-VN-(10-2019)-1-2.pdf