

PRODUCT DATA SHEET

Sika[®]-1

INTEGRAL NORMAL SETTING WATERPROOFING COMPOUND FOR MORTAR

DESCRIPTION

A liquid ready to use waterproofing compound which reacts with the constituents of a sand: cement mix to block capillaries and pores in concrete. Whilst effectively blocking the passage of water, the substrate still continues to breath.

Chloride free.

Sika-1 is part of a range of internationally used, normal and quick setting waterproofing admixtures.

USES

Sika-1 is the basis for the Sika Render system which is suitable for the waterproofing of masonry and concrete structures such as: Tunnels, Basements, Culverts, Canals, Watertanks, Inspection chambers, Manholes and Swimming pools.

PRODUCT INFORMATION

Packaging	20 kg can 200 kg drum
Appearance / Colour	Yellowish / Viscous liquid
Shelf Life	1 year if stored properly in unopened original container.
Storage Conditions	Store in dry, cool, shaded place
Density	~1.08 kg/L

SYSTEM INFORMATION

Layer Thickness	Sika renders are applied in two, three or four coats depending on the level of water pressure and type of structure. In most cases a 3 coat systems is used
------------------------	---

APPLICATION INFORMATION

Consumption	Sika-1 is added to the clean mixing water. The normal ratio of Sika-1 to water is 1:10, which is equivalent to approximately 3% of binder content. When using verywet sand, the ratio must be increased to 1:8 or in extreme cases 1:6.
--------------------	---

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces must be 100% roughened by hacking, wire brushing, sand blasting, etc.

Cracks, porous areas and spalling should be cut out and made good.

Prior to the first coat, apply a primer-slurry (water, Sika Top 77D, sand, cement).

MIXING

Dilute one part Sika-1 with 10 parts clean water, (see dosage) in a clean container, and stir well. This is best carried out by first mixing equal volume of Sika-1 and water and then adding the remaining water.

Walls – First Coat 1 : 1

Dry mix by volume. Equal parts of cement: sand and pass through a 3 mm sieve. Add Sika-1 mixture.

Second Coat 1 : 1.5

Dry mix at the ratio of 1:1.5 cement : sand by volume before passing through a 3 mm sieve. Add Sika-1 mixture

Third Coat 1 : 2.5

Dry mix at the ratio of 1:2.5 cement : sand by volume before passing through a 3 mm sieve. Add Sika-1 mixture

Fourth Coat 1 : 1.5

In areas of high water pressure, where a fourth coat is required this should be carried out as an additional 1:1.5 coat after the third coat has been applied.

Note: For best results, cement should be fresh Portland cement. Sand should be sharp, clean and graded 3 mm down. Soft and loamy sands are unsuitable.

Floor Toppings

Normally carried out in 2 coats with the addition of a primer (water, SikaTop 77, sand, cement) brushed well in the surface and followed by :

Bonding Coat 1 : 1

Dry mixed cement, sand with Sika-1 mixture added to form a plastic consistency.

Main Floor Coat 1 : 2.5

Made semi-dry onto the still wet bonding coat and tamped vigorously until moisture rises to the surface.

APPLICATION

WALLS

After mixing to trowellable consistency each coat is applied to a thickness of 6 mm by steel trowel. The second coat is best applied when the first coat has begun to stiffen (usually 4-5 hours). After, the second coat has been applied and also after the third in the case of four coat renders, apply a "splatter" coat of the same mortar but mixed with clean water.

This will provide a key for the final coat.

Note: Intermediate coats should not be scratched to form a key. The final coat should be finished with a wood float to avoid unnecessary laitance.

FLOORS

Slurry coat is applied by brush in strips and protected from traffic. The bonding coat is laid in a plastic consistency to a thickness of not less than 10 mm, by steel trowel.

The main floor coat is applied semi-dry to a thickness of not less than 28 mm, tamped well and finished by wood float.

JOINTS

Careful attention should be paid to all joints. Each coat must be stepped back 100 mm from the previous coat.

ANGLES

The first and second coat of the wall render are carried down and onto the floor by 200 mm and 100 mm respectively and then treated in the normal way as joints.

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 and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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.

PT. Sika Indonesia

Jl. Raya Cibinong-Bekasi km.20.

Cileungsi, Bogor 16820 - Indonesia

Tel. +62 21 8230025

Fax. +62 21 8230026

Website: idn.sika.com

email: sikacare@id.sika.com



PRODUCT DATA SHEET
Sika®-1
February 2017
020705040010000001