

PRODUCT DATA SHEET

SikaTop®-109 Seal VN

Polymer-modified, flexible, cementitious waterproofing coating

DESCRIPTION

SikaTop®-109 Seal VN is a cementitious, two-part, polymer-modified flexible waterproofing coating. It is applied to concrete and mortar to prevent waterinfiltration.

USES

Waterproofing, sealing of hairline cracks and as a protective coating against aggressive elements such as carbon dioxide (for example, in concrete repair work), frost and de-icing agents.

Areas of application include water tanks, basements, car parks, terraces, balconies, bridges, retaining walls, swimming pools, RC gutters, bathroom floors and walls, planter boxes, wet rooms for example kitchens, shower rooms and laundries.

CHARACTERISTICS / ADVANTAGES

- Good crack bridging capability (up to 1 mm at +20°C)
- Pre-batched components
- Mixes and applies easily
- Easily applied by roller or brush
- Good adhesion to sound substrates
- Impermeable
- Increased frost and salt resistance
- Decreases carbon dioxide penetration
- Non-toxic, same as cement
- Flexible
- Economical

PRODUCT INFORMATION

Packaging	▪ 15 kg set (Part A: 5 kg pail; Part B: 10 kg bag) ▪ 24 kg set (Part A: 2 x 4 kg pail; Part B: 16 kg bag)
Appearance / Colour	Part A: White liquid Part B: Grey powder Parts A + B (mixed): Dark grey slurry
Shelf life	Min. 6 months if stored properly in unopened, original packaging
Storage conditions	Storage in original unopened and undamaged sealed packaging, in cool, dry conditions. Protect from direct sunlight.
Density	1.6 - 1.8 kg/ ltr (mixed)

TECHNICAL INFORMATION

Tensile Adhesion Strength	≥ 0.5 N/mm ² (at 28 days under standard conditions, on concrete)	(BS EN 14891)
Crack Bridging Ability	≥ 0.75 mm (at +23°C)	(BS EN 14891)
Water Penetration under Pressure	No penetration	

APPLICATION INFORMATION

Consumption	Minimum 2 coats at approximately 1.0 kg/m ² per coat. For areas subject to high water ingress, apply a third coat at ~1.0 kg/m ² . Always ensure waterproof coatings are applied in a minimum of 2 coats.
Ambient Air Temperature	+8°C minimum
Mixing ratio	Component A : B = 1 : 2.0 (parts by weight)
Pot Life	~ 60 minutes (at +20°C) Pot life is shorter at higher temperatures. Cover material container when not in use.
Waiting Time / Overcoating	Allow 4 - 8 hours (+20°C) for the first coat to cure before applying the following coats.

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.

IMPORTANT CONSIDERATION

- Never apply more than 2 kg/m² of SikaTop®-109 Seal VN in a single layer.
- Allow at least 3 days of air curing before subjecting SikaTop®-109 Seal VN to submersion.
- Always using bonding agent with SikaLatex® to avoid de-bonding issue for application of rendering mortar or protection layer.
- Trials should be always conducted before application.
- Always refer to the latest updated product data sheet.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Steel and iron surfaces must be clean, free from scale, rust, grease and oil. All surfaces must be as true and flat as possible. Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of SikaTop®-109 Seal VN. However, no loose standing water should be on the surface before application.

MIXING

Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result.

Mix in a clean container by slowly adding the powder component to the liquid component and stir with slow speed electric mixer (< 500 r.p.m.).

APPLICATION

Whilst the substrate is still damp but free of standing water, apply the first coat by brush, roller or squeegee, working the material well into the surface to achieve full bond.

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 previous coats, it is recommended to apply the next coat after 24 hours.

If the subsequent coat is applied 12 hours or later, the slightly prewetted, preferably using a fine spraying.

For large areas, SikaTop®-109 Seal VN can be applied by spray using a suitable worm type mixer/pump. An additional stripe coat is recommended over cracks, wall/floor intersections, etc. as these locations are where movement is most likely to be expected in service.

For more details, please refer to our Technical Service Department.

CURING TREATMENT

As with all cement based products, it is essential to cure SikaTop®-109 Seal VN immediately after application against direct sunlight, wind, rain and frost for a minimum of 3 to 5 days to ensure full cement hydration and to minimise cracking.

Use polythene sheeting or similar approved methods.

CLEANING OF TOOLS

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

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.

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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