

PRODUCT DATA SHEET

SikaTop[®]-108 Seal VN

Cementitious flexible FIBRE-REINFORCED mortar for waterproofing and concrete protection

DESCRIPTION

SikaTop[®]-108 Seal VN is a 2-part, cementitious, polymer modified, flexible, crack-bridging, FIBRE-REINFORCED mortar for waterproofing and concrete protection. It can be applied onto many types of construction substrates.

USES

- Flexible waterproofing and protection of structures retaining or exposed to water such as tanks, waste water treatment plants, concrete pipes, bridges etc.
- Protective, anti-carbonation coating for concrete surfaces
- Waterproofing of bathrooms, showers, wet rooms, terraces, balconies and swimming pools before the application of ceramic tiles bonded with cementitious adhesives
- Waterproofing and protection of concrete structures
- Internal waterproofing of basement walls and floors exposed to low water pressure
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw

CHARACTERISTICS / ADVANTAGES

- Complies with BS EN 14891 standard
- FIBRE REINFORCED to provide better crack bridging ability at lower consumption
- Multipurpose, product can be applied for toilet, balconies, swimming pool, water tank, etc.
- Suitable for drinking water tank
- Complies with green building regulations

PRODUCT INFORMATION

Packaging	18 kg set (Part A: 5 kg and Part B: 13 kg) 34.6 kg set (Part A: 9.6 kg and Part B: 25 kg)
Shelf life	6 months from the date of production
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C to +35 °C. They must be protected from direct sunlight, rain, snow and ice. Always refer to packaging.

TECHNICAL INFORMATION

Tensile Adhesion Strength	~ 1.0 N/mm ²	(BS EN 14891)
Crack Bridging Ability	≥ 0.75 mm	(BS EN 14891)

APPLICATION INFORMATION

Fresh mortar density	~1,8 kg/l
Consumption	<ul style="list-style-type: none"> ▪ Waterproofing bathrooms, terraces, balconies: ~2.0 - 3.0 kg/m² ▪ Waterproofing above 1m water pressure: ~3.0 kg/m² Always requires at 2-3 coats. For extremely high infiltration area, 3 coats may be required.
Ambient Air Temperature	+ 8 °C min. / + 40 °C max.
Mixing ratio	Part A : Part B = 1 : 2.6 (by weight)
Substrate Temperature	+ 8 °C min. / + 40 °C max.
Pot Life	~ 30 minutes (at 27 °C / 65 % r.h)

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®-108 Seal VN in one single layer.
- SikaTop®-108 Seal VN is not a decorative treatment and may display signs of “blooming” in damp weather conditions. This does not affect the quality of the coating in any way.
- Allow at least 3 days of air curing before subjecting SikaTop®-108 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. Absorbent surfaces have to be thoroughly saturated with water prior application of first coat of SikaTop®-108 Seal VN.

MIXING

Mix in a clean container by slowly adding the powder component to the liquid component and stir with slow speed hand drill electric mixer (< 500 r.p.m.). Once a homogeneous mix is obtained, continue mixing for 3–4 min. The mortar must be homogeneous and lump free.

Do not add any water or other ingredients. Each set must be entirely mixed, to avoid faulty particle size distribution of aggregates contained in the powder component.

APPLICATION

Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden for approximately 4-8 hours at the temperatures above 20 °C before applying the second coat.

For slurry consistency, apply with a hard plastic bristled brush, broom or by trowel.

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 more details, please refer to our Technical Service Department.

CURING TREATMENT

As with all cement based products, it is essential to cure SikaTop®-108 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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Product Data Sheet

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