

PRODUCT DATA SHEET

SikaTop[®]-540 Seal VN

FLEXIBLE, FIBRE-REINFORCED POLYMER CEMENT WATERPROOFING MORTAR

DESCRIPTION

SikaTop[®]-540 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, 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 enhance crack bridging ability with lower consumption
- Multipurpose, product can be applied for toilet, balconies, swimming pool, water tank, etc.
- Suitable for drinking water tank

PRODUCT INFORMATION

Packaging	36 kg set (Part A - Liquid: 10 kg in a plastic container, Part B - Powder: 26 kg in a paper bag)
Shelf life	6 months from date of production if stored properly in unopened, original packaging.
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.
Appearance / Colour	Component A: Liquid / White Component B: Powder / Grey

TECHNICAL INFORMATION

Crack Bridging Ability	≥ 0.75 mm	(BS EN 14891)
Tensile Adhesion Strength	≥ 1.0 N/mm ²	(BS EN 14891)
Water Penetration under Pressure	Pass (1.5 bar for 7 days)	(BS EN 14891)

APPLICATION INFORMATION

Consumption	<p>The coverage of SikaTop®-540 Seal VN is 1 kg/m² per coat to obtain an approximate wet film thickness of 0.8 mm (± 0.08mm). Actual coverage may vary depending on the the method of application, the texture and porosity of the surface.</p> <p>Recommended consumption:</p> <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 <p>Always requires at 2-3 coats. For area with extremely high infiltration, 3 coats may be required.</p>	
Ambient Air Temperature	>5 °C	
Mixing ratio	Part A : B = 5 : 13 (parts by weight)	
Pot Life	~ 30 minutes at 30 °C	

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.

ECOLOGY, HEALTH AND SAFETY

For detailed Environmental, Health and Safety information, please consult and follow all instructions on the product Material Safety Data Sheet. Contact your local Sika representative for the latest version.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Correct substrate preparation is critical for optimal performance. Surfaces should be structurally sound, clean, and free from laitance, loose particles, oil, grease, old coatings, curing compounds, or any other contaminants. Remove oil, grease, and wax by scrubbing with industrial-grade detergent or degreasing compounds before mechanical preparation. Cement laitance, loose particles, mold release agents, curing membranes, and other contaminants must be removed by shot-blasting, grinding, or scarifying, followed by vacuum cleaning.

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Surfaces have to be thoroughly saturated with clean water prior application of first coat of SikaTop®-540 Seal VN.

MIXING

Mechanical mixing is essential. A slow-speed (~300 rpm), heavy-duty electric drill with a wing-type paddle

is recommended. Begin by placing approximately 75% of Part A into a clean pail. While keeping the mixer running, slowly add Part B. Mix for at least 3 minutes until a lump-free, homogeneous mix is achieved. Continue mixing while adding the remaining of Part A if applying on a horizontal surface, or only part of it if applying on vertical surfaces, until the desired consistency is reached. Allow the mixture to stand for 2-3 minutes, then remix for an additional 2-3 minutes before application.

APPLICATION

While the substrate is still damp from saturation, apply the first coat. Allow it to harden for approximately 4-8 hours at temperatures above 20 °C before applying the second coat. For slurry consistency, apply with a hard plastic-bristled brush, broom, or trowel. For floor applications, to avoid the 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 surface should be slightly prewetted, preferably using fine spraying. For more details, please refer to our Technical Service Department.

CURING TREATMENT

SikaTop®-540 Seal VN must be protected against rapid drying due to direct sun exposure, high temperatures or wind. Curing by wet burlap, polyethylene sheet or a curing compound such as Sika® Antisol® S is recommended.

CLEANING OF TOOLS

Clean tools using water and rags before the resin system hardens. 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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SikaTop®-540 Seal VN

August 2024, Version 01.01

020701010020000375

SikaTop-540SealVN-en-VN-(08-2024)-1-1.pdf