BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-540 Seal

(formerly MSeal 540)

FLEXIBLE, POLYMER CEMENT WATERPROOFING SLURRY

DESCRIPTION

SikaTop®-540 Seal is a two part, prepacked system, consisting of a liquid polymer as Part A and a premixed powder as Part B. The two parts on mixing yield a brushable, smooth slurry with excellent bond to most substrates. The product is based on selected synthetic resins and cements.
SikaTop®-540 Seal is in compliance with Bureau Veritas Potability test for used in drinking water reservoirs or tanks. Surface Spread of Flame test: BS 476:Pt.7:71 (passes Class 1).

USES

SikaTop®-540 Seal is designed to be used as an effective waterproofing membrane on a variety of substrates.
Applications include:

- Waterproof coatings to the internal faces of water tanks, sumps, reservoirs, planter boxes etc., before tiling or other surface finishing.
- Treating terraces, balconies, kitchen and toilet floors as a sandwich treatment, to prevent water ingress.
- Treating bridge and flyover decks before wearing course to protect concrete from rainwater ingress.

CHARACTERISTICS / ADVANTAGES

- Polymer modified – Improved bond strength on a variety of substrates.
- Permeable to water vapours - Allows surface to breath, preventing build-up of moisture in structure, reducing maintenance.
- Flexible - Can withstand moderate movement of hairline cracks. Bridges cracks up to 0.3mm in width, reducing maintenance.
- Weather resistant - Suitable for use in exposed conditions.
- Brushable consistency - Easily applied by brush or spray.
- Non-toxic – Can be applied onto surfaces in contact with drinking water.

PRODUCT INFORMATION

Packaging	36 kg set (Part A - Liquid: 10 kg in a plastic container, Part B - Powder: 26 kg in a paper bag)
Appearance / Colour	Component A: Liquid / White Component B: Powder / Grey
Shelf Life	12 months from date of production if stored properly in unopened, original packaging.
Storage Conditions	Dry, cool, shaded place. Do not store in direct sunlight and avoid allowing the material to freeze which will render the material unusable.

Volatile Organic Compound (VOC) Content	0.5 g/L

TECHNICAL INFORMATION

Tensile Adhesion Strength	~ 1.0 N/mm²
Behaviour After Artificial Weathering	Gray scale: 4-5 (1000 hours) 2-3 (2000 hours) (Gray Scale 1 denotes severe discolouration; 5 denotes mild or no discolouration.)
Water Absorption	< 0.1 mm
Water permeability	2.27 x 10^{-13} m/s

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

SURFACE PREPARATION

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound direct tensile strength of more than 1.5 N/mm² via a pull off tester with a load rate of 100N/s), clean, and free from laitance, loose particles, oil and grease, old coatings, curing compounds or any other contaminants. Remove oil or grease and wax contaminants 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 from the surface 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.

MIXING

Mechanical mixing is necessary. A slow speed (300 rpm), heavy duty electric drill with a wing type paddle is recommended. Place approx. 75% of Part A of the pack in a clean pail. Keeping the mixer running, add the Part B slowly. Mix for at least 3 minutes to get a lump-free homogenous mix. While continuing to mix, add all of the remainder of Part A if applying on a horizontal surface, or a part of it if applying on vertical surfaces till the required consistency is obtained. Allow to stand for 2-3 minutes and remix before application.

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

SikaTop®-540 Seal 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.