

PRODUCT DATA SHEET

SikaTop®-300 Seal

POLYMER-MODIFIED HIGHLY ELASTIC CEMENTITIOUS WATERPROOFING COATING

DESCRIPTION

SikaTop®-300 Seal is a 2-component, polymer-modified elastic cementitious waterproofing coating. It is applied to concrete and mortar as an elastic waterproofing coating to prevent water infiltration.

USES

SikaTop®-300 Seal is used for waterproofing, sealing of hairline cracks and as a protective coating against aggressive elements such as carbon dioxide (e.g. in concrete repair work), frost and deicing agents.

Areas of Application:

- Tanks & Ponds
- Basement
- Car Parks
- Terraces and balconies
- Bridges
- Retaining walls
- RC gutters and planter boxes
- Wet areas, e.g. kitchens, bathrooms, shower, laundries
- Waste water treatment plant
- Podium and roof areas
- Swimming Pools and fountains
- Lift pits
- Window frame surroundings
- Curtain walls and claddings

CHARACTERISTICS / ADVANTAGES

- Highly elastic with good crack bridging capability
- Pre-batched components with consistence quality
- Easily applied by roller or brush
- Good adhesion to sound substrates
- Cementitious with low VOC
- Impermeable
- Increased frost and salt resistance
- Decreases carbon dioxide penetration
- Non-toxic, same as cement
- Resistant to freezing & thawing (-10 °C)

PRODUCT INFORMATION

Chemical Base	Component A : liquid polymer and additives Component B : Portland Cement, selected aggregates
Packaging	45 kg set (25 kg bag and 20 kg pail)
Appearance / Colour	Component A : white liquid Component B : grey powder Mixed product: dark grey slurry

Shelf Life	9 months from date of production
Storage Conditions	Stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.
Density	Approx. 1.5 kg/l (wet mixed mortar)
Tensile Strength	~ 1.32 MPa
Elongation at Break	~ 250 % (7 days cured)
Tensile Adhesion Strength	> 1 MPa
Water Absorption	< 4.9 x 10 ⁻¹⁴ m/s
Water Penetration under Pressure	0 mm at 50 m head of water

APPLICATION INFORMATION

Consumption	Approx. 1 kg/m ² /coat (Overall coating thickness depend on the application area, substrate roughness and surface profile) <ul style="list-style-type: none"> ▪ SikaTop®-300 Seal must be applied in a minimum of 2 coats. ▪ For high risk areas, apply an addition third coat.
Pot Life	~ 80 minutes at + 20 °C. (Pot life will be shortened at higher temperature)
Initial Set Time	0 ml/m ² /sec.

APPLICATION INSTRUCTIONS

EQUIPMENT

- Slow Speed Mixer (maximum 500 rpm)
- Mixing Paddle with uplifted notched disk.

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®-300 Seal. However no loose standing water should be on the surface before application.

MIXING

Shake component A before using it. Pour the whole component A (liquid) into a clean mixing container. While mixing at low speed, add slowly component B (powder) to the liquid component. Continue mixing for approx. 3 minutes until a creamy, lump free consistency is achieved.

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. Allow 2-4 hours (at 25 °C) for the first coat to cure before applying following coats.

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.

CURING TREATMENT

For cement based products, proper curing is important. Protect newly applied SikaTop®-300 Seal against direct sunlight, wind, rain and frost to ensure full cement hydration to minimize cracking.

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

LIMITATIONS

- Minimum ambient and substrate temperature is 8 °C.
- Never apply more than 2 kg/m² of SikaTop®-300 Seal in one single layer.
- For better keying, a bond coat is recommended using a mixture of Sika Latex and cement. For details, please refer to our product data sheet.

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

ECOLOGY

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.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

It is non-regulated products according to Air Pollution Control (volatile organic compounds) Regulation of Hong Kong.

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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