

## PRODUCT DATA SHEET

# SikaTop<sup>®</sup>-300 Seal

## Polymer-Modified Highly Elastic Cementitious Waterproofing Coating

### DESCRIPTION

SikaTop<sup>®</sup>-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<sup>®</sup>-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

<b>Composition</b>	Component A : liquid polymer and additives Component B : Portland Cement, selected aggregates
<b>Packaging</b>	45 kg set (25 kg bag and 20 kg pail)
<b>Shelf life</b>	9 months from date of production
<b>Storage conditions</b>	Stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.

<b>Appearance and colour</b>	Component A : white liquid Component B : grey powder Mixed product: dark grey slurry
<b>Density</b>	Approx. 1.5 kg/l (wet mixed mortar)
<b>Tensile strength</b>	~ 1.32 MPa
<b>Tensile strain at break</b>	~ 250 % (7 days cured)
<b>Tensile adhesion strength</b>	> 1 MPa
<b>Water absorption</b>	< 4.9 x 10 <sup>-14</sup> m/s
<b>Water penetration under pressure</b>	0 mm at 50 m head of water

## APPLICATION INFORMATION

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

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Minimum ambient and substrate temperature is 8 °C.
- Never apply more than 2 kg/m<sup>2</sup> of SikaTop<sup>®</sup>-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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## 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<sup>®</sup>-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.

Sika® SealTape F is a recommended product to be used in conjunction with SikaTop®-300 Seal in order to achieve advanced water tightness in wet rooms and around wet area.

#### **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 EQUIPMENT**

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

## **LOCAL RESTRICTIONS**

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## **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.

