

## PRODUCT DATA SHEET

# SikaTop<sup>®</sup>-552 Seal

(formerly MSeal 552)

Acrylic reinforced, cement-based, flexible waterproof coating

### DESCRIPTION

SikaTop<sup>®</sup>-552 Seal is a two-component, acrylic modified cement-based coating that requires only on-site mixing forming the ideal product to waterproof and resurface concrete, masonry, and most other construction materials. Simply applied by stiff brush, roller or trowel, it forms a waterproof, flexible coating. SikaTop<sup>®</sup>-552 Seal provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied, SikaTop<sup>®</sup>-552 Seal provides a hardwearing, seamless, waterproof membrane for roofs and foundation protection.

### USES

- To reface and even out variations in concrete surfaces
- As a waterproof lining for water retaining structures like water tanks, pools, reservoirs, etc.
- For coating seawater channels
- Sealing and coating tie bar holes to ensure water tightness
- For waterproofing and protection against brackish water
- To provide foundation & retaining walls protection
- As a waterproof coating for roofs
- As a backing to marble and granite to prevent water ingress, and thus alleviate surface staining
- To provide protection to concrete surfaces from carbonation and chloride attack
- For use on pedestrian walkways in marine areas

### FEATURES

- A 1mm coating provides anti-carbonation cover equivalent to over 80cm of concrete
- Waterproof – resists up to 7 Bars (70 metre head) of pressure
- Excellent adhesion – bonds to porous and non-porous surfaces
- Flexible
- Non-toxic – suitable for contact with potable water
- Suitable for light pedestrian traffic
- Breathable - whilst repelling water, allows substrate to breathe
- High resistance to carbon dioxide and chloride ion diffusion
- Unlike conventional coatings, which require a 7-28 day cure of concrete, SikaTop<sup>®</sup>-552 Seal can be applied to 24 hour-old concrete, there by giving immediate protection

### PRODUCT INFORMATION

#### Composition

SikaTop<sup>®</sup>-552 Seal is composed of specially selected cements, silica sand and reactive fillers supplied in powder form together with a liquid component of blended acrylic copolymers and wetting agents.

#### Packaging

20kg double pack (15kg powder + 5kg liquid).

<b>Shelf life</b>	Up to 12 months if stored according to manufacturer's instructions in unopened containers.	
<b>Storage conditions</b>	Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, Sika's Technical Services Department.	
<b>Appearance and colour</b>	available in grey and white	
<b>Density</b>	1800kg/m <sup>3</sup>	

## TECHNICAL INFORMATION

<b>Elongation at break</b>	>5% (unbonded)	
<b>Water penetration under pressure</b>	7 bars - no leakage (2mm dft)	(DIN 1048)
<b>Chloride diffusion coefficient</b>	1.04 x 10 <sup>-7</sup> cm <sup>2</sup> /s	

## APPLICATION INFORMATION

<b>Consumption</b>	1.8kg/m <sup>2</sup> at 1mm thickness	
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### 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 CONSIDERATIONS

### ECOLOGY, HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

As with all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust, and residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro jetting.

Mechanical wire brushing may be appropriate for small areas. Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar, such as SikaTop®-552 Seal. Conventional concrete curing compounds should be removed before application. Roofing tiles should be firmly bedded and grouted before application.

#### SUBSTRATE QUALITY / PRE-TREATMENT

DO NOT APPLY TO DRY CONCRETE Saturate concrete surfaces with clean water.

### MIXING

SikaTop®-552 Seal is supplied in premeasured units and should be mixed on site utilising clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. MIX AND USE. Do not mix more material than can be used in one hour.

NOTE: Although SikaTop®-552 Seal is supplied in premeasured packs; part packs can be used by mixing ratio 2 volumes of powder to 1 volume of liquid or 3 by weight of powder to 1 by weight of liquid. Mix thoroughly and keep mixed during application. DO NOT RE-TEMPER WITH WATER.

### APPLICATION

Whilst still visibly damp, but free of standing water; apply, using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. For heavy 6-10mm depressions, honeycombs etc. use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary, to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried. It is recommended, for general re-surfacing, that each coat should be a minimum of 1mm thick. Spray application is recommended for large areas, details of suitable equipment can be provided by Sika's Technical Services Department.

REINFORCING WITH MESH IF REQUIRED Mesh is embedded in the first coat when it is still wet.

### 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.

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