

#### **BUILDING TRUST**

### PRODUCT DATA SHEET

## SikaTop®-550 Seal

(formerly MasterSeal® 550)

#### Acrylic cementitious waterproofing coating

#### **DESCRIPTION**

SikaTop®-550 Seal is a two-component acrylic modified cementitious coating that requires on site mixing to form product to waterproof and resurface concrete, masonry, and most other construction materials. Can be applied by stiff brush, roller, or trowel, it forms a waterproof coating.

SikaTop®-550 Seal provides an effective barrier to waterborne salts and atmospheric gases.

Fluid applied, SikaTop®-550 Seal provides a hard wearing, seamless, waterproof membrane.

SikaTop®-550 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.

Suitable for use in hot and tropical climatic conditions.

#### **USES**

- As a waterproof lining for water retaining structures.
- For coating seawater channels.
- For waterproofing and protection against brackish water.
- 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.

- To provide foundation protection.
- As a vapor barrier behind cladding.
- For waterproofing of terraces, balconies, bathrooms and other wet areas where tiles are to be installed directly on top of the membrane using a proprietary tile adhesive. under tiling.

#### **FEATURES**

- Easy to apply by brush or in thin trowel applications
- No additional water required
- Excellent adhesion to various substrates
- Suitable for contact with potable water
- Breathable whilst repelling water, allows substrate to breathe
- High resistance to chloride ion diffusion
- Unlike conventional coatings which require a 7-28 day cure of concrete, SikaTop®-550 Seal can be applied to 24 hour-old concrete thereby giving immediate protection

#### CERTIFICATES AND TEST REPORTS

- BS 6920: Part 1 2000 Suitable for use in contact with potable water.
- SikaTop®-550 Seal is certified according "Low Emitting Materials as per Al Sa'fat Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL)

#### PRODUCT INFORMATION

Product declaration	Specially selected cements, silica sand and reactive fillers	
Composition	Component A: Powder Component B: Liquid	
Packaging	Available in 20 kg double pack	

#### **Product Data Sheet**

**SikaTop®-550 Seal**July 2024, Version 02.02
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Shelf life	Minimum 9 months from date of production if stored properly in undamaged and original sealed packaging.	
Storage conditions	Store in original unopened packaging in cool and dry conditions between +5 °C and +35 °C. Protect from direct sunlight and frost.	
Appearance and colour	Available in three standard colours:  Light Grey White Dark Grey	
Density	~ 1.82 kg/l (fresh mortar at +25°C)	

#### **TECHNICAL INFORMATION**

Water permeability	< 0.1 kg (m <sup>2</sup> xh <sup>0.5</sup> )	(BS EN 1062-3: 2008)	
Water penetration under pressure	Nil	(BS EN 12390 Part 8: 2009)	
Permeability to carbon dioxide	> 50 m	(BS EN 1062-6: 2002 Method A) Equivalent air layer thickness (SD)	
Chloride ion diffusion resistance	chlorides and sulphates. Note: Independent assessment ha	lote: Independent assessment has shown that even after 12 months constant imnersion the chloride ion diffusion co-efficient could not be measured for SikaTop®-	
Chloride Ion Ingress	Not measurable after 24 mont	hs of testing	
Chemical resistance	resistance to sodium hydroxide	ding wear and weather resistance and good e, calcium chloride, de-icing salts. aces exhibit good resistance to mild acids.	
Carbonation resistance	gases which cause carbonation SikaTop®-550 Seal at an applie	nely effective barrier to atmospheric acidic n in concrete structures. d rate of 1.8 kg/m² gives an equivalent air ide diffusion (R) of 92 m. The accepted min-	

#### **APPLICATION INFORMATION**

Consumption	~1.8 kg/m² at 1 mm thickness		
Layer thickness	1 mm with constant thickness for each layer, minimum 2 layers		
Ambient air temperature	+5°C min. / 45°C max.		
Substrate temperature	+5°C min. / 45°C max.		
Waiting time to overcoating	Waiting time between coats:		
	+20°C	~6 hours	
	+30°C	~3 hours	

#### **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**

 Spray application is recommended for large areas, for details contact Sika's Technical Service Department.

- Where subsequent tiling works are to be carried out on vertical surfaces, contact the local Sika representative for advice.
- Special precautions should be taken during application in direct sun and/or strong wind.
- Do not add water in any circumstances.
- Do not mix partialy, mix only full kits.
- Protect freshly applied material from freezing conditions and rain, etc.



#### **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

#### SUBSTRATE QUALITY / PRE-TREATMENT

Substrates must be structurally sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, coatings and other surface treatments etc.

Clean surfaces by blast cleaning, high-pressure water-jetting (400 bar), wire-brushing, grinding etc., in order to remove all previous coatings, any traces of grease, rust, release agents, cement laitance and any other material which could reduce adhesion. All dust deposits from this preparation must also be removed that is by vacuum.

Repair concrete substrates, if necessary, with an appropriate cementitious mortar from the SikaEmaco®, SikaRep® or Sika MonoTop® range of repair materials. For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

#### **MIXING**

SikaTop®-550 Seal can be mixed with a low speed (~500 r.p.m.) electric drill mixer. Shake carefully Comp. B before using. Then pour ~½ Comp. B into a suitable mixing container and add Comp. A slowly while mixing. When homogeneous, add the remaining amount of Comp. B, and mix thoroughly at least for 3 minutes, until the proper lump-free consistency is reached. Do not add any additional water or other ingredients; each packaging unit must be entirely mixed.

#### **APPLICATION METHOD / TOOLS**

#### As a slurry:

Apply 1st coat of mixed SikaTop®-550 Seal either mechanically, by spray, or by hand using a stiff brush. Apply in the same direction.

Apply 2<sup>nd</sup> coat of SikaTop®-550 Seal in crosswise direction to the first coat application, as soon as first coat has hardened.

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#### Sika Saudi Arabia Limited

As a mortar:

mechanically.

**LEGAL NOTES** 

face.

as the first coat has hardened.

As pore / blowhole filler:

**CLEANING OF EQUIPMENT** 

water immediately after use.

LOCAL RESTRICTIONS

When SikaTop®-550 Seal is applied by trowel (e.g. for

direction. Apply 2<sup>nd</sup> coat of SikaTop®-550 Seal as soon

a smooth surface finish), apply 2 coats in crosswise

Tightly trowel into the pores / blowholes of the sur-

Clean all tools and application equipment with clean

Note that as a result of specific local regulations the

may vary from country to country. Consult the local

Product Data Sheet for exact product data and uses.

The information, and, in particular, the recommenda-

tions relating to the application and end-use of Sika

properly stored, handled and applied under normal

conditions in accordance with Sika's recommenda-

tions. In practice, the differences in materials, sub-

strates and actual site conditions are such that no war-

ranty 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 recom-

mendations, or from any other advice offered. The

for the intended application and purpose. Sika re-

serves the right to change the properties of its

user of the product must test the product's suitability

products. The proprietary rights of third parties must

current terms of sale and delivery. Users must always

be observed. All orders are accepted subject to our

refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which

products, are given in good faith based on Sika's cur-

rent knowledge and experience of the products when

declared data and recommended uses for this product

Hardened / cured material can only be removed

Sika Construction Chemicals for Manufacturing LLC Riyadh / Jeddah / Dammam / Rabigh Tel: +966 12 692 7079 Email: info@sa.sika.com Web: gcc.sika.com

will be supplied on request.

Sika LLC - Oman

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## SCS.

ISO 9001, 16091, 65901 – 565:

- Sha LUE LUC
- Sha Fortensidered Chemicals LUC
- Sha God 8.5.C. D

SS 9001, 16003 – 565:
- Sha Soudh Anabla Limited

ISO 9001, 16003 – TÜN:
- Sha Mic Construction Chemicals LUC
- Sha Construction Chemicals LUC
- Sha Construction Chemicals

For Manufacturing LUC
- Masser Bulleter Schaldren LUC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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# Sika<sup>®</sup>

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