

PRODUCT DATA SHEET

SikaTop®-550 Seal

(formerly MSeal 550)

Acrylic cementitious waterproofing coating

DESCRIPTION

SikaTop®-550 Seal is a two component acrylic modified cementitious coating applied by brush, roller or trowel to waterproof concrete, masonry.

SikaTop®-550 Seal provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied, provides a seamless, waterproof membrane for roofs and foundation protection.

USES

SikaTop®-550 Seal is ideal:

- As a waterproof lining for water retaining structures
- For coating seawater channels
- Sealing and coating tie bar holes to ensure water tightness
- To provide foundation protection
- As a waterproof coating for wet areas and sunken slabs.
- To provide protection to concrete surfaces from carbonation and chloride attack

CHARACTERISTICS / ADVANTAGES

- Protects against carbonation - A 1mm coating provides anti carbonation cover equivalent to over 80cm of concrete Waterproof – Suitable for internal and external waterproofing
- Excellent adhesion - Bonds to porous and non-porous surfaces
- Flexible – Copes with the slight thermal movement of concrete structures
- Suitable for contact with potable water – Can be used for lining concrete water tanks
- Vapour permeable - Whilst repelling water, allows concrete to breathe thus preventing osmosis
- Compatible with moist surfaces – Can be applied to 24 hour-old concrete thereby giving immediate protection

APPROVALS / STANDARDS

- BS 1881Part 208:1996- I.S.A.T.
- WRAS - "Suitable for use in contact with potable water" - BS 6920: 2000
- BS 476:Part6:1989- Fire tests on building material: and structures - Method of test for fire propagation for products.
- DIN 1048/BS EN 12390 Water Penetration Test

PRODUCT INFORMATION

Chemical base	Component A: Liquid Component B: Powder	
Packaging	Ready batched 20 kg units	
	Part A (Powder)	15.0 kg
	Part B (Liquid)	5.0 kg
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 / Colour	Available in two standard colors : White & Grey
Density	~ 1.95 ± 0.15 kg/l (fresh mortar at +25°C)

TECHNICAL INFORMATION

Elongation at break	>5% unbonded
Water tightness	>95% reduction against control (Initial Surface)
Water penetration under pressure	5 bar – No leakage (BS EN 12390 Part 8: 2009)
Equivalent air layer thickness for water vapour	$S_d < 1.5\text{m}$ (839 μm dft)- (equivalent air layer thickness)
Chloride ion diffusion resistance	SikaTop®-550 Seal provides an effective barrier to waterborne salts such as chlorides and sulphates. Note: Independent assessment has shown that even after 24 months constant immersion the chloride ion diffusion co-efficient could not be measured for SikaTop®-550 Seal.

APPLICATION INFORMATION

Consumption	The coverage rate for each layer will be strongly influenced by the roughness of the substrate 1.94 kg / m ² at 1 mm thickness
Ambient air temperature	+5°C min. / 40°C max.
Substrate temperature	+5°C min. / 40°C max.
Waiting time / Overcoating	Waiting time between coats: +20°C ~6 hours +30°C ~3 hours

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.
- Internal Reference - Version: BASF_CC-UAE/SI_550_12_94/v6/07_17/v7/04_18/v8/12_18/v9/09_19

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

Surface preparation

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound direct tensile strength of more than 1.5MPa 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. Mechanical wire brushing may be appropriate for small areas.

Prior to priming use our repair mortars to achieve a

smooth and level surface by filling holes and irregularities

Mixing

SikaTop®-550 Seal is supplied in premeasured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix, using a slow speed (300rpm) drill fitted with a suitable paddle. MIX and USE; do not mix more material than can be used in one hour.

Application

Do not apply to dry concrete. Saturate concrete surfaces with clean water and apply whilst still damp (saturated surface dry), 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. Spray application is recommended for large areas, details of suitable equipment can be provided by our Technical Service Dept.

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 mix-

ing. 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.

CLEANING OF TOOLS

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.

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