BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-551 Seal

(formerly MSeal 551)

Acrylic reinforced cementitious, flexible waterproofing coating

DESCRIPTION

SikaTop®-551 Seal is a two-component acrylic modified cementitious coating applied by brush, roller or trowel to waterproof and resurface concrete, masonry, and most other construction materials.
SikaTop®-551 Seal provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied, SikaTop®-551 Seal provides a hard wearing, seamless, waterproof membrane for roofs and foundation protection.

USES

SikaTop®-551 Seal is ideal:

- To reface and even out variations in concrete surfaces
- 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.
- 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.

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 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
- Compatable with moist surfaces - Can be applied to 24 hour-old concrete thereby giving immediate protection

APPROVALS / STANDARDS

BS 1881 Part 208: 1996 - I.S.A.T.
WRAS - "Suitable for use in contact with potable water" - BS 6920: 2000
BS 476: Part 6: 1989 - Fire tests on building material: and structures - Method of test for fire propagation for products. DIN 1048 Water Penetration Test

PRODUCT INFORMATION

Packaging	SikaTop®-551 Seal is available in 20 kg double pack. Consisting of 5 kg Liquid part A 15 kg powder part B
Shelf Life	SikaTop®-551 Seal can be kept for 6 months in original unopened packing when stored indoors.
Storage Conditions	Do not store in direct sunlight and avoid allowing the material to freeze which will render the material unusable. Must keep between 5 - 35ºC.
Density	1940 kg/m³

Volatile organic compound (VOC) content	0.5 g/L (HK prod code P10-17)
Water Vapour Transimission	SD < 1.5m (839µm dft)
Water Penetration under Pressure	7 bars – no leakage (at 2mm DFT)
Chloride Ion Diffusion Resistance	Not measurable after 24 months of testing
Elongation at break	>5% unbonded
Layer Thickness	Coverage 1.94 kg / m² at 1 mm thickness Recommended thickness 2mm DFT

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.

ECOLOGY HEALTH AND SAFETY

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.

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 SikaEmaco® repair mortars to achieve a smooth and level surface by filling holes and irregularities

MIXING

SikaTop®-551 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 (300rpm) drill fitted with a suitable paddle. MIX and USE; do not mix more material than can be used in one hour. 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. It is recommended, for general resurfacing, that each coat should be a minimum of 1mm thick.
Spray application is recommended for large areas,

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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