

PRODUCT DATA SHEET

SikaTop[®]-570 Seal

(formerly MasterSeal[®] 570)

Elastomeric acrylic reinforced cementitious waterproof coating

DESCRIPTION

SikaTop[®]-570 Seal is a two-component elastomeric acrylic modified cementitious coating that requires only on site mixing to form 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.

Suitable for use in hot and tropical climatic conditions.

USES

- As a waterproof lining for water retaining structures.
- Sealing and coating tie bar holes to ensure watertightness.
- For waterproofing and protection against brackish water.
- To provide foundation protection.
- Waterproofing and protection 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.
- 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

- Quick and easy brush or roller application
- Excellent adhesion. Bonds to porous and non-porous surfaces
- Flexible
- Suitable for light pedestrian traffic
- Breathable - whilst repelling water
- High resistance to chloride ion diffusion
- SikaTop[®]-570 Seal can be applied to 24 hour-old concrete thereby giving immediate protection

CERTIFICATES AND TEST REPORTS

Tested according to BS 6920: Part 1 2000.

PRODUCT INFORMATION

Composition	SikaTop [®] -570 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	Supplied in 23 kg unit
Shelf life	12 months from date of production if stored properly in undamaged and original sealed packaging.

Storage conditions	Store in original unopened packaging in a cool and dry condition between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture. Avoid excessive compaction. Do not stack pallets.
Appearance and colour	Natural Cement Grey colour
Density	~1.89 kg/l (fresh mortar at +25°C)

TECHNICAL INFORMATION

Crack bridging ability	Static crack bridging > 2.5 mm (BS EN 1062 Part 7 Method A)
Tensile adhesion strength	~0.5 N/mm ² (on concrete surface, at 28 days) (BS EN 1542)
Water permeability	≤ 0.1 kg (m ² xh ^{0.5}) (BS EN 1062-1: 2004 Classification Cl. 5.6 table 5, Class W3 (low))
Water penetration after capillary absorption	< 5 mm (BS EN 12390 Part 8: 2009)
Diffusion resistance to carbon dioxide	SD > 50 m (BS EN 1062-1: 2004 Classification Cl. 5.8 table 7, Class C)

APPLICATION INFORMATION

Consumption	~1 L / m ² / mm per layer (min. 2 layers recommended)
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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.

FURTHER DOCUMENTATION

Chloride Ion diffusivity

SikaTop®-570 Seal provides an effective barrier to waterborne salts such as chlorides and sulphates.

Chemical resistance

SikaTop®-570 Seal has wear and weather resistance and good resistance to sodium hydroxide, calcium chloride, de-icing salts. SikaTop®-570 Seal coated surfaces exhibit good resistance to mild acids.

Anti carbonation coating

SikaTop®-570 Seal is an extremely effective barrier to atmospheric acidic gases which cause carbonation in concrete structures.

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 PREPARATION

The surface to be coated must be clean and sound. Remove all traces of formwork, release agents, previous coatings, laitance, organic growth and any other contaminants that may affect the bond adversely. Suitable cleaning methods include ultra high-pressure water jetting, grit blasting and grinding. Aggressive percussive methods such as scabbling or scarifying are not recommended unless followed by grit blasting, wire brushing or high-pressure water jetting. After the above treatment, surfaces must be thoroughly rinsed with clean potable water to remove all dust and loose particles.

Crack bolt holes and large surface defects must be cut out and filled.

SUBSTRATE QUALITY / PRE-TREATMENT

Do not apply to dry concrete. Saturate concrete surfaces with clean water 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.

MIXING

SikaTop®-570 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.

APPLICATION METHOD / TOOLS

It is recommended, for general resurfacing, that each coat should be a minimum of 1 mm thick. Spray application is recommended for large areas, details of suitable equipment can be provided by Sika Technical Service Dept.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with 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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ISO 9001, 14001, 45001 – SGS
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ISO 9001, 14001 – SGS
- Sika Saudi Arabia Limited
ISO 9001 – TÜV
- Sika MB Construction Chemicals LLC
- Sika Construction Chemicals for Manufacturing LLC
- Master Builders Solutions LLC

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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