BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-570 Seal

(formerly MSeal 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.
SikaTop®-570 Seal provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied, SikaTop®-570 Seal provides a hard wearing, seamless, waterproof membrane for roofs and foundation protection.
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.

USES

- 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 watertightness.
- For waterproofing and protection against brackish water.
- To provide foundation 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

- Waterproof
- 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 chloride ion diffusion.
- Unlike conventional coatings which require a 7-28 day cure of concrete, SikaTop®-570 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.

PRODUCT INFORMATION

Packaging	23 kg packs.
Shelf life	12 months when stored as in sotrage condistions.
Storage conditions	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 consult Sika Technical Services Department.
Appearance and colour	Natural Cement Grey colour.
Density	1890 kg/m³

TECHNICAL INFORMATION

Crack bridging ability	>2.5 mm	BS EN 1062 Part 7 Method A
Pull-out resistance	>0.5 N/mm²	BS EN 1542
Water permeability	<5 mm	BS EN 12390 Part 8: 2009
Carbonation resistance	SD >50 m	BS EN 1062-1: 2004 Classification Cl. 5.8 table 7, Class C

APPLICATION INFORMATION

Consumption	1.890 kg / m² at 1 mm thickness.

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.

FURTHER DOCUMENTATION

Chloride Ion diffusivity
SikaTop®-570 Seal provides an effective barrier to waterborne salts such as chlorides and sulphates. independent assessment has shown that even after 12 months constant immersion the chloride ion diffusion co-efficient could not be measured for MasterSeal 570.
Chemical resistance
SikaTop®-570 Seal has outstanding wear and weather resistance and good resistance to sodium hydroxide, calcium chloride, de-icing salts. MasterSeal 570 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

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, 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 SikaEmaco® S 488. Conventional concrete curing compounds should be removed before application. The exception to this is when SikaKure 181 has been used. 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 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 6-10 mm 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.

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.
AlthoughSikaTop®-570 Seal is supplied in premeasured packs, part packs can be used by mixing 2 volumes of powder to 1 volume of liquid. Mix thoroughly and keep mixed during application. DO NOT RE-TEMPER WITH WATER.

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.

LEGAL NOTES

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