

PRODUCT DATA SHEET

SikaTop®-542 Seal

(formerly MSeal 542)

Acrylic reinforced, cementitious, flexible waterproof coating

DESCRIPTION

SikaTop®-542 Seal is a two-component, acrylic modified, cementitious coating that requires only on-site mixing to form the ideal product to waterproof and re-surface concrete, masonry, and most other construction materials.

Simply applied by stiff brush, roller, trowel or spray, it forms a waterproof, flexible coating.

SikaTop®-542 Seal provides an effective barrier to waterborne salts and atmospheric gases to prevent carbonation.

Fluid applied, SikaTop®-542 Seal prevents the infiltration of water.

USES

- To reface and even out variations in concrete surfaces
- As a waterproof lining for water retaining structures like water tanks, pools and reservoirs.
- For coating seawater channels
- Sealing and coating tie bar holes to ensure water tightness
- For waterproofing and protection against brackish water
- To provide foundation protection
- 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

- Excellent adhesion – bonds to porous and non-porous surfaces
- Slight flexibility
- Suitable for light pedestrian traffic
- Breathable – whilst repelling water, allows substrate to breathe
- Slurry or trowellable consistency; application is still possible by spray.
- Unlike conventional coatings, which require a 7-28 day cure of concrete, SikaTop® 542 Seal can be applied to 24 hour-old concrete, thereby giving immediate protection

PRODUCT INFORMATION

Composition	SikaTop® 542 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	20kg double pack (15kg powder + 5kg liquid).
Shelf life	Up to 12 months if stored according to manufacturer's instructions in unopened containers.
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	available in grey and off white.
Density	1800kg/m ³

TECHNICAL INFORMATION

Flexural-strength	13 N/mm ²
Pull-out resistance	> 1 N/mm ²
Elongation at break	>5% ASTM C307

APPLICATION INFORMATION

Consumption	<ul style="list-style-type: none">▪ 0.8-1 kg/m²/coat▪ Two coats are normally recommended▪ Apply the second coat at right angles to the first coat
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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

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 like 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 con-

crete curing compounds should be removed before application.

The exception to this is when Sika®Antisol 101 has been used. Roofing tiles should be firmly bedded and grouted before application.

MIXING

SikaTop® 542 Seal is supplied in pre-measured 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 within one hour.

NOTE: Although SikaTop® 542 Seal is supplied in pre-measured packs, part packs can be used by mixing ratio 2 volumes of powder to 1 volume of liquid or 3 by weight of powder to 1 by weight of liquid. Mix thoroughly, and keep mixed during application. DO NOT RE-TEMPER WITH WATER.

APPLICATION

Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water; apply the first coat using short, stiff bristle brush or roller. Allow at least overnight to cure before applying the second coat. Dampen the first coat and remove excess water. Apply the second coat as above. Trowel application

can be undertaken as necessary. For heavy 6-10mm depressions, honeycombs, etc. use less gauging liquid and mix to the desired consistency. Spray application is recommended for large areas, details of suitable equipment can be provided by Sika's Technical Services Department.

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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