

PRODUCT DATA SHEET

SikaTop[®]-581 Seal

(formerly MSeal 581)

Waterproof Coating for Concrete and Masonry

DESCRIPTION

SikaTop[®]-581 Seal, when mixed with water or a SikaLatex[®]-600 water blend, provides a waterproof coating to concrete and masonry above and below ground level. It is applied to a minimum thickness of 2mm in two coats by stiff brush, broom or spray.

USES

- Tanking of basements
- Water reservoirs
- Tunnels
- Swimming pools
- Lift pits
- Concrete pipes
- Shower walls and floors prior to tiling

CHARACTERISTICS / ADVANTAGES

- DWI approved for use with potable water
- Labour saving, simple and rapid application
- Water vapour permeable
- Allows substrate to dry out
- Is applied to damp substrates
- Applied by brush or spray
- Bonds with concrete and masonry, becoming an integral part of the substrate thereby overcoming hydrostatic pressure
- Non-solvent

PRODUCT INFORMATION

Chemical Base	Polymer-modified cementitious material
Packaging	25kg bags
Shelf Life	12 Months
Storage Conditions	must be stored under cover, clear of the ground and stacked not more than 6 bags high. Protect the materials from all sources of moisture and frost.
Maximum Grain Size	0.8 mm
Density	approx. 2080 kg/m ³
Compressive Strength	55 N/mm ² @ 28 Days
Tensile Strength in Flexure	7.6 N/mm ² @ 28 Days
Tensile Strength	3.7 N/mm ² @ 28 Days

Water Penetration Under Negative Pressure 4 bar

Permeability to Water Vapour 86 - 120 μ

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

REGULATION (EC) NO 1907/2006 - REACH

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrates to be treated must be completely clean, structurally sound and mechanically keyed. All surface coatings, defective renders, foreign matter, formwork treatments and other contaminants that may affect the bond adversely should be removed

MIXING

LIQUID CONTENT

SikaTop®-581 Seal mixed with SikaLatex®-600 (diluted 1 part SikaLatex®-600 to 3 Parts clean water): 4.8 – 5.6 litres of liquid per 25 kg bag.

SikaTop®-581 Seal mixed with water: 4.8 – 6.1 litres per 25 kg bag.

The quantity may vary slightly depending upon the ambient conditions. In all instances, it is important that the material is mixed to the correct consistency. In applications where the SikaTop®-581 Seal is expected to be in contact with hydrocarbons (such as diesel oil, petrol etc.) potable water only should be used as the mixing liquid.

MECHANICAL MIXING

Blend the powder into the mixing liquid. Use a suitable mixing paddle in a slow speed drill (400 - 600rpm). Let the mix stand for 10 minutes to allow full saturation to take place. Re-mix adding a small amount of liquid if required to obtain the correct consistency.

CONSISTENCY

Do not exceed the maximum liquid requirement. The material should be mixed to a thick, creamy, lump-free consistency that will just support the weight of the stiff brush. Mixed material must be used within 60 minutes from the start of mixing, or less under hot weather conditions. Do not re-temper the mix.

APPLICATION METHOD / TOOLS

Note: Do not apply SikaTop®-581 Seal to frozen substrates or if the ambient temperature is below 5°C or expected to drop below 5°C within 24 hours. Always apply to a pre-dampened substrate. High-suction substrates will require more dampening than dense substrates. Ensure there is no free standing water on the substrate prior to application. The nominal thickness per coat must be between 1.0 and 1.5mm. SikaTop®-581 Seal can be applied by *brush, broom or spray, but must not be applied by trowel.

A suitable brush will be 6" (150mm) in width and have a short pile comprising stiff nylon bristles of 3" (80mm) in length. The first coat **MUST** be worked into the substrate with a stiff brush, while still wet, to ensure an adequate bond to the substrate, even when applied by spray.

CURING TREATMENT

Damp cure for 24 hours after which time the SikaTop®-581 Seal must be allowed to air dry. In cold, humid or unventilated areas it may be necessary to leave the application for a longer curing period or to introduce forced air movement. **NEVER** use dehumidifiers during curing periods.

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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