BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-586 Seal

(formerly MSeal 586)

Smooth Finish Waterproof Render

PRODUCT DESCRIPTION

SikaTop®-586 Seal when mixed with clean water or a SikaLatex®-600/water blend to a plaster consistency produces a waterproof render/fairing coat. SikaTop®-586 Seal is suitable for trowel application in layers of 1mm - 20mm in thickness.

USES

SikaTop®-586 Seal is used for interior and exterior waterproofing of concrete and masonry, above and below ground level, where a smooth or textured finish is required.
Typical applications include:
- Water reservoirs
- Tunnels
- Walls and floors of basements and showers
- External renders for structures in a harsh-weather environment
- Blow hole/pore filler

CHARACTERISTICS / ADVANTAGES

- 3 day return to service in potable water retaining structures at ≥ 3°C
- 1 day return to service in potable water retaining structures at ≥ 10°C
- Can be spray applied
- Totally waterproofs whilst providing a decorative finish
- Cement-based for extreme durability
- Capable of withstanding both positive and negative pressure
- Can be maintained to a high standard by high-pressure water or steam cleaning
- Solvent free

APPROVALS / STANDARDS

Approved for use in contact with potable water under:
- Regulation 31(4) (a) of the water supply (water quality)regulation 2016 for England and 2018 for Wales.
- Approved by Energy and Climate Change Directorate Drinking Water Quality Division, under Water Supply (Water Quality) (Scotland) Regulations 2014, 33(3) (a).
- Approved by the Department of Agriculture, Environment and Rural Affairs under Regulation 30 of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

IMPORTANT NOTE

- **Specific instructions for use (IFU) for potable water applications must be followed and are available upon request.**
- **For all other applications follow the guidance within this technical data sheet.**

PRODUCT INFORMATION

Packaging	SikaTop®-586 Seal is supplied in 25kg bags. SikaLatex®-600 is available in 20 litre plastic containers.
Shelf Life	Rotate the stock in order not to exceed the shelf life of 12 months for SikaTop®-586 Seal and SikaLatex®-600.

Storage Conditions	All materials should 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.
Density	(Wet) Approx. 2170 kg/m³

TECHNICAL INFORMATION

Compressive Strength	(28 days) - 27 N/mm²
Flexural Strength	(28 days) - 6.5 N/mm²
Tensile Strength	(28 days) - 3.5 N/mm²
Tensile adhesion strength	(28 days) - 2.0 N/mm²
Permeability to Water Vapour	80-120 µ

APPLICATION INFORMATION

Consumption	5.5kg of powder/ m² at 3mm thickness 4.5m² per bag at 3 mm thickness
Pot Life	90 minutes
Setting time	(Final) - 345 minutes

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

If SikaTop®-586 Seal is used to waterproof fish tanks or swimming pools, it should be washed down after curing is complete with salt water and rinsed with clean water. Repeat the rinsing until the required pH conditions are obtained. Failure to do this and to monitor the pH of the water until stable can lead to the death of fish.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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.

SUBSTRATE PREPARATION

Substrates should be prepared by abrasive blasting, high-pressure water treatment or mechanically abrading the surface to achieve the required key
All mortar joints to be flush-pointed.
Repair with a compatible mortar as required.

MIXING

Water/Liquid Demand
SikaTop®-586 Seal can be mixed with water only; or a blend of SikaLatex®-600 and water mixed at a ratio of 1:3 by wt/vol, of SikaLatex®-600: water.

Water only
4.2 - 5.0 litres per 25 kg bag,
Typically 4.6 litres

SikaLatex®-600/water blend 1:3 by wt/vol
*3.6 – 4.0 litres per 25 kg bag
Typically 3.8 litres
*3.6 litres comprises 0.9 litres of SikaLatex®-600 blended with 2.7 litres of water.
4.0 litres comprises1.0 litre of SikaLatex®-600 blended with 3 .0 litres of water.
In applications where the SikaTop®-586 Seal is expected to be in contact with hydrocarbons (such as diesel oil, petrol, etc.), water only should be used as mixing liquid.
For all other applications consult the technical department for advice on when water only or a water / SikaLatex®-600 blend should be used.
Mechanical Mixing
Gradually blend the powder into the mixing liquid using a suitable mixing paddle in a slow-speed drill (400-600rpm).

Spray application
All-in-one mixing and spraying machine or separate spraying machine and all associated ancillary equipment to suit application volumes.

APPLICATION

Do not apply to frozen surfaces or if the ambient temperature is below 3°C or expected to fall below 3°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.
Apply by trowel, using firm pressure to force the material into the substrate; to a minimum depth of 1mm and a *maximum depth of 20mm, per layer. Do not over trowel. Allow the SikaTop®-586 Seal to stiffen sufficiently before floating to a finish. If further layers are required apply wet on wet when the material has stiffened sufficiently. Alternatively scratch key and allow to set before repeating the application procedure above.
The time between application and finishing will vary dependent upon substrate absorption and ambient drying conditions.
Leave the placed material until it is sufficiently stiff to allow finishing with a wood, plastic or sponge float. Dependent upon which type of float is used, a variety of finishes can be obtained. SikaTop®-586 Seal must be used within 90 minutes of mixing or sooner in hot conditions. Clean all equipment immediately with water.
* If greater thicknesses are required, contact the technical department for advice.

CURING TREATMENT

Fog-spray all applications with clean water after the initial set has taken place for as long as practicable.
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 or within 28 days of completion.
Protect from rain until the product has set.

Overcoat at nominal 3mm thickness
Sika cementitious and Xolutec® coatings - 1 day
Sika resin coatings (PU and Epoxy) - 3 days
These times will vary dependant on ambient temperature, humidity and layer thickness.

CLEANING OF TOOLS

Wash all equipment with clean water before hardening occurs.

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 the 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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