

PRODUCT DATA SHEET

SikaTop®-599 Seal

(formerly MSeal 599)

High range elastomeric, cement-based waterproof coating for concrete and masonry

DESCRIPTION

SikaTop®-599 Seal is a blend of Portland cements, selected silica, micro-fibres and modifying agents. When mixed to a slurry consistency with the acrylic polymer emulsion, it can be easily applied by brush or spray equipment. It cures to give an elastomeric flexible membrane.

The 2mm thick SikaTop®-599 Seal membrane will accommodate movement up to 0.5 mm, or 1.2 mm when reinforced with FIBER mesh.

USES

- For waterproofing water-retaining structures which may be subject to movement like water tanks, pools, reservoirs, etc.
- As part of the MasterSeal basementwaterproofing system, in areas sensitive to movement, vibrations and slight settlement.
- To protect concrete from water, carbonation and de-icing salts.
- Suitable for internal and external use, against positive and negative water pressure.
- Fiber mesh can be used in strip form over joints and cracks or as reinforcement for the whole application.

CHARACTERISTICS / ADVANTAGES

- Remains flexible when submerged.
- Good chemical resistance against soft water, domestic waste water, manure or other liquids moderately aggressive to mineral substrates.
- Freeze-thaw resistant.
- Water vapour permeable.
- CO² barrier.
- Crack bridging.
- UV stable.
- Simple and fast method of treating cracks and joints.
- Quick and easy brush or spray application.
- Can be applied to damp substrates.
- Thin layer application.
- Equipment to be cleaned simply with water.

PRODUCT INFORMATION

Packaging	Ready batched 20.0 kg units:	
	Part A (Powder)	14.3 kg
	Part B (Liquid)	5.7 kg
Shelf Life	12 months from date of production	
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.	
Density		

TECHNICAL INFORMATION

Tensile Strength	Tensile @ 28 days	0.9 N/mm ²
	Adhesion	1.1 N/mm ²
Permeability to Water Vapour	Water vapour permeability (µH ₂ O) 985	
Water Penetration under Pressure	Positive Pressure	1.5 bar
	Negative Pressure	1.0 bar

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 8 : 20 (by weight)	
Consumption	~1,75 kg/m ² /mm This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Ambient Air Temperature	+ 5 °C min. / + 35 °C max.	
Substrate Temperature	+ 5 °C min. / + 35 °C max.	
Pot Life	~1 hour at +20 °C	
Final Set Time	~2 hour at +20 °C	
Fresh mortar density	~ 1.75 kg/l	

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.

USES

- Protect freshly applied material from rain until at least 24–48 hours after application.
- Avoid direct contact with chlorinated swimming pool water.
- The product is not a vapour barrier and may transmit vapour to applied coatings and cause blistering.
- The hardening process is slower when there is a high environmental humidity level, e.g. in closed or inadequately ventilated rooms and basements. Controlled ventilation methods are recommended.
- Avoid application during direct sun and/or strong wind exposure.
- When over-coating with solvent paints always carry out preliminary trials to ensure the solvent does not affect the integrity of the waterproofing layer.
- Do not overpaint in basements or other structures where the membrane is subject to negative water pressure.

ECOLOGY HEALTH AND SAFETY

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 contaminant that may affect the bond adversely. Suitable cleaning methods include high-pressure water treatment and grit blasting. NOT recommended are aggressive percussive methods such as scabbling. After the above treatment, surfaces must be thoroughly rinsed with clean potable water to remove all dust and loose particles.

For Cracks and bolt holes please consult Sika Solutions technical team for repair advice.

MIXING

Important: Do not add any additional water or other constituents.

1. Shake carefully Part. A before mixing.
2. Pour ~½ of Part. A into a suitable mixing container.
3. Add Part. B slowly while mixing with a low speed (~500 rpm) electric single paddle mixer or other suitable equipment until a consistent mix has been achieved.
4. Add the remaining amount of Part. A.
5. Mix thoroughly for at least 3 minutes to achieve a

smooth consistent mix.

CURING TREATMENT

Under hot or excessive drying conditions adequate protective shielding should be foreseen. In cold and humid areas it may be necessary to leave the application for a longer curing period. SikaTop®-599 Seal needs to dry under air dry circumstances.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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