

PRODUCT DATA SHEET

SikaTop[®]-555 Seal

(formerly MSeal 555)

Flexible, polymer modified cementitious waterproofing slurry

DESCRIPTION

SikaTop[®]-555 Seal is a two component product, consisting of Part A (liquid) and Part B (powder) which when yields a flexible waterproofing coating with excellent weathering resistance and crack-bridging capability.

USES

SikaTop[®]-555 Seal is recommended as a waterproofing membrane below concrete, mortar, tiles etc. Typical applications include:

- Flat and Pitched Roofs.
- Wet areas, Bathrooms and kitchens
- Small size terraces and balconies
- It is also suitable as a waterproofing coating to concrete structures such as:
- Bridge parapets, beams and pillars
- Sumps and tanks.
- Foundations below and above ground

SikaTop[®]-555 Seal is not suitable as a trafficable membrane. For this application, it is advisable to protect the cured membrane by covering with concrete or tiles.

CHARACTERISTICS / ADVANTAGES

- Flexible - Bridges cracks more than 1 mm when subject to normal movements.
- Permeable to water vapours - Allows surface to breath, preventing build-up of vapour pressure.

PRODUCT INFORMATION

Packaging	Pack Size	Part A (Liquid)	Part B (Powder)
	45 kg	20kg	25kg
Appearance / Colour	Part A (Liquid)	White	
	Part B (Powder)	Grey	
Shelf Life	12 months from the date of production.		
Storage Conditions	Store out of direct sunlight, clear of the ground on pallets and protected from rainfall.		
Density	1.48 ± 0.02 kg/L (Mixed)		

TECHNICAL INFORMATION

Shore A Hardness	≥ 60	(ASTM D2240)
Tensile Strength	≥ 1 MPa	(ASTM D412)
Crack Bridging Ability	> 1mm	(ASTM C836)
Permeability to Water Vapour	Breatheable	(ASTM E96)
Elongation at break	≥ 200 %	(ASTM D412)

APPLICATION INFORMATION

Consumption	The minimum recommended coverage of MasterSeal 555 IN is 0.9-1.0 kg/m ² per coat to get approx. 0.65-0.75 mm thick wet film build. Therefore, for two coats, the material requirement is 1.9-2.0 kg/m ² . Actual coverage depends upon the method of application, the texture and porosity of the surface.	
Mixing Ratio	Part A : Part B=: 1:1.25 (By Weight)	
Pot Life	@20°C	2 hrs
	@30°C	1 hr
Curing Time	<ul style="list-style-type: none">▪ Approx 45 mins at 30 ° C (Touch dry)▪ Approx 5-7 days for initial cure for installing overlay like tile adhesive, protective screed ,etc▪ Approx 28 days for full cure The above vary depending on ventilation,temperature,humidity,etc	
Application Time	Approx 60 mins (Workable time) @ 30° C	
Waiting Time / Overcoating	2.5- 4 hrs depending on temperature,ventilation and humidity	

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

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

Surface Preparation

Surfaces should be structurally sound, clean, and free from cement laitance, loose particles. Oil, and grease, mold release agents curing compound, or any other contaminant shall be removed by wet grit blasting, high pressure water jetting (approx. 150 bars) or such other effective methods.

Fill surface irregularities such as blow holes, honey-combs etc with our repair mortars to achieve a smooth and level surface.

Saturate the prepared substrate with clean water before applying SikaTop®-555 Seal

Mixing

Mechanical mixing is necessary. A slow speed (300-600 rpm), heavy duty electric drill with a wing type paddle is recommended. Place half to two thirds of Part A (white liquid) in the clean container supplied. Keeping the mixer running, add Part B (powder component) slowly and steadily. Add the remaining liquid and mix for at least 2 minutes until a homogeneous lump free consistency is

Installation Of Coating

It is extremely important that the area being treated is shaded from direct sun and wind to prevent rapid drying of the coating. Apply SikaTop®-555 Seal evenly using a block brush. or by a notched trowel, onto the prepared surface, to give a continuous film. In case of large areas

SikaTop®-555 Seal can be spray applied using a worm-gear type of spray equipment.

Apply at least two coats with an average wet film thickness of 1 mm each. To avoid pin holes, apply the second coat at right angles to the direction of first. Ensure that no air is entrapped in the membrane during application. If during the application the mix stiffens, discard it and

prepare a fresh mix for application. Do not apply on external surfaces if rain is anticipated within 3-4 hrs.

Curing

Slow drying of SikaTop®-555 Seal membrane ensures

homogenous curing and SikaTop®-555 Seal must be protected against rapid drying due to high temperatures or wind. No further curing treatment is required but moist/spray curing can be done for 3-5 days

Protection

It is recommended to not leave the coating exposed and protect it with an overlay like tile adhesive, protective plaster, brickbat coba, etc for long term durability

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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Product Data Sheet

SikaTop®-555 Seal
October 2024, Version 02.02
020701000000002030

SikaTop-555Seal-en-HK-(10-2024)-2-2.pdf

