

## PRODUCT DATA SHEET

# SikaTop<sup>®</sup>-105 Seal SA

### WATERPROOFING AND DAMP-PROOFING CEMENTITIOUS SLURRY

#### DESCRIPTION

SikaTop<sup>®</sup>-105 Seal SA is a two-part polymer modified cementitious waterproof slurry, comprising of a liquid polymer and cement based mix incorporating special admixtures. Suitable for use in hot and tropical climatic conditions.

#### USES

- Economical and easy to use waterproofing slurry for internal applications in wet areas
- Concrete protection of lift pits, Retaining walls, irrigation channels
- Can be used against positive water pressure
- Rigid waterproofing of basement walls in new construction and refurbishment work
- Waterproofing and protection of hydraulic structures, such as: basins, tanks, concrete piping, canals etc.

#### CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush or in thin trowel applications
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion
- Protects against water penetration
- Good adhesion to sound substrates

#### PRODUCT INFORMATION

<b>Composition</b>	Cement, selected graded aggregates and polymer dispersion	
<b>Packaging</b>	20 kg set (3 kg pail of component A and 17 kg of component B)	
<b>Appearance / Colour</b>	Component A: White liquid Component B: White powder	
<b>Shelf life</b>	12 months minimum from production date if stored properly in original unopened packaging.	
<b>Storage conditions</b>	Store in a dry area in original sealed packaging between 5 °C and 35 °C. Protect from direct sunlight.	
<b>Compressive strength</b>	≥28 N/mm <sup>2</sup> (28 days)	(ASTM C109)
<b>Tensile strength in flexure</b>	≥8.5 N/mm <sup>2</sup> (28 days)	(EN 196-1)
<b>Tensile adhesion strength</b>	≥1.5 N/mm <sup>2</sup> or substrate failure (28 days)	(ASTM D7234)
<b>Mixing ratio</b>	A:B:water = 1:5.7:1 (by weight)	

<b>Fresh mortar density</b>	~1.9 kg/l (25 °C)	
<b>Consumption</b>	~1.9 kg/m <sup>2</sup> /mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.	
<b>Yield</b>	~12.1 Litre	
<b>Layer thickness</b>	Per coat: Minimum 1.0 mm Maximum 1.5 mm Apply minimum two coats.	
<b>Ambient air temperature</b>	+8°C min. / +35°C max	
<b>Substrate temperature</b>	+8°C. min / +35°C max	
<b>Pot Life</b>	~30 minutes (+20°C)	
<b>Waiting time to overcoating</b>	+ 10°C	~12 hours
	+ 20°C	~6 hours
	+ 30°C	~3 hours

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

- SikaTop®-105 Seal SA is not a decorative treatment and may display signs of “blooming” after rain or in damp weather. This does not affect the performance of the coating.
- Avoid application in direct sun and/or strong wind.
- Do not add more water than recommended.
- Apply only to sound, prepared substrates.
- Do not exceed maximum layer thickness per coat.
- For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 2.0 to 3.0 mm. In areas of severe water penetration, three coats might be required.
- Protect freshly applied material from freezing conditions, direct heat, sunlight, wind and rain.
- For areas in contact with drinking water follow local regulations.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

### SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contamin-

ants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blast cleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.

- Any small surface defects and/or variations in level, profile, can be filled and levelled with an additional layer SikaTop®-105 Seal SA.
- For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the SikaRep® , Sika MonoTop® or Sikafloor® Level range should be used.
- For applications in hot climates / environments and/or on absorbent substrates, thoroughly pre-dampen the surface with a minimum of 2 hours prior to the product application, avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

### MIXING

SikaTop®-105 Seal SA must be mechanically mixed using a forced action mixer or in a clean drum using a mixing drill and paddle (max. 500 rpm). A normal concrete free fall mixer is NOT suitable. Stir Part A (liquid) thoroughly before pouring full quantity into a clean mixing container. Add Part B (powder) slowly while mixing continuously. Add 3 litre of clean cold water to the mix and continue mixing until a uniform lump free consistency is achieved.

### APPLICATION

SikaTop®-105 Seal SA can be applied by brush, trowel, notched trowel, stiff bristle, or spray equipment. Work the material well into the prepared substrate, filling all pores and voids.

**For brush consistency:** Apply the first coat of SikaTop®-105 Seal SA with horizontal brush strokes and leave to harden. Apply the second coat with vertical brush strokes.

**For trowel consistency:** Apply the first coat with a notched trowel and leave to harden. Apply the second coat with a flat trowel.

**For spray application:** Use a hopper gun spray equipment, textured sprayer, or a rotor/stator pump equipment. Allow the first coat to harden (4 to 8 hours) prior to the application of the second coat. As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge or a plastic trowel. Do not overwork SikaTop®-105 Seal SA during finishing and avoid the use of additional water.

## CURING TREATMENT

It is essential to protect and cure SikaTop®-105 Seal SA immediately after application for a minimum of 3 to 5 days to ensure full cement hydration and to minimize cracking. When used in contact with drinking water, applied material must be air cured for minimum 21 days at 20°C. Use polythene sheeting or similar approved methods.

## CLEANING OF EQUIPMENT

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

## 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 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.

### SIKA NORTHERN GULF

Bahrain / Qatar / Kuwait  
Tel: +973 177 38188  
sika.gulf@bh.sika.com  
gcc.sika.com

### SIKA SOUTHERN GULF

UAE / Oman / SIC  
Tel: +971 4 439 8200  
info@ae.sika.com  
gcc.sika.com

### SIKA SAUDI ARABIA

Riyadh / Jeddah / Dammam  
Tel: +966 11 217 6532  
info@sa.sika.com  
gcc.sika.com



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Sika Gulf B.S.C. (c),  
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Sika Qatar LLC  
ISO 14001: Sika UAE LLC,  
Sika Gulf B.S.C. (c),  
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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
18001.

### Product Data Sheet

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