

## PRODUCT DATA SHEET

# SikaTop<sup>®</sup>-209 Réservoir

### SYNTHETIC RESIN AND CEMENT BASED FLEXIBLE WATERPROOFING MICRO-MORTAR

#### DESCRIPTION

SikaTop<sup>®</sup>-209 Réservoir is a pre-dosed micro-mortar composed of :

- component A (emulsion resin)
- component B (cement and special fillers)

After mixing, the kit gives a plastic consistency micro-mortar.

#### USES

SikaTop<sup>®</sup>-209 Réservoir is a flexible waterproofing coating for tanks with potable or non potable water (tanks, ponds, pools, aqueducts...), whether they are above ground, buried or semi-buried, open or closed.

#### CHARACTERISTICS / ADVANTAGES

- Can be placed in contact with drinking water
- High waterproofing properties
- Good adhesion on concrete, mortar, stone and brick
- Low elasticity modulus, allowing micro-crack bridging
- Easy to use

#### APPROVALS / CERTIFICATES

- Certificate of Conformity with Positive Reference Lists issued by CARSO - Health and Environment Laboratory hygiene of Lyon.
  - SikaTop<sup>®</sup>-209 Réservoir Grey : ref 17 CLP LY 019
  - SikaTop<sup>®</sup>-209 Réservoir White : ref 17 CLP LY 020
- SikaTop<sup>®</sup>-209 Réservoir Grey and White meet the requirements that have been set by the Department in charge of Health following the advice of the Board of Governors d'Hygiène Publique from France concerning the compatibility of materials coming into contact with water intended for human consumption.
- CCT n° 34 «Waterproofing of tanks »
  - PV VERITAS n° LAB 98010/01, GEN 11010328Q 01 and GEN 11010328Q 02
  - Adhesion test (NF EN 24624)
  - Positive pressure and negative pressure test
  - Cracking behaviour test (P 84-402)
  - Indoor air classification A+ for SikaTop<sup>®</sup>-209 Réservoir White, EUROFIN PV n°392-2016-00247302revA\_E\_EN and SikaTop<sup>®</sup>-209 Réservoir Grey, PV EUROFIN n°392-2016-00247301rev\_A\_E\_EN

#### PRODUCT INFORMATION

<b>Packaging</b>	Set of 36,1 kg including: <ul style="list-style-type: none"> <li>▪ component A : 9,5 kg plastic drum</li> <li>▪ component B : 26,6 kg kraftpaper bag</li> </ul>
<b>Appearance / Colour</b>	Grey or white
<b>Shelf life</b>	The product can be stored up to 12 months in its original packaging.
<b>Storage conditions</b>	Store away from frost and humidity.
<b>Density</b>	~ 1.8 kg/l

## TECHNICAL INFORMATION

Tensile Adhesion Strength	Adhesion at 28 days	Adhesion after 3 months of immersion in water	(NF EN 24624)
	SikaTop®-209 Réservoir Grey	1.2 N/mm <sup>2</sup>	
SikaTop®-209 Réservoir White	0.87 N/mm <sup>2</sup>	0.70 N/mm <sup>2</sup>	

Crack Bridging Ability	28 days	After 3 months	of immersion in water	(P 84-402)
	+ 23°C	+ 23°C	+ 5°C	
SikaTop®-209 Réservoir Grey	1.5 mm	1.3 mm	0.7 mm	
SikaTop®-209 Réservoir White	1.7 mm	0.9 mm	0.7 mm	

<b>Water Penetration under Pressure</b>	No water flow under 1 MPa pressure (100 m water column).
<b>Water Penetration under Negative Pressure</b>	No water flow under 0.2 MPa negative pressure (20 m water column).

## APPLICATION INFORMATION

<b>Consumption</b>	2,7 to 3,6 kg/m <sup>2</sup> for two layers (for a total thickness of 1,5 to 2,0 mm), depending on substrate roughness						
<b>Ambient Air Temperature</b>	+ 5°C min. / + 30°C max.						
<b>Substrate Temperature</b>	+ 5°C min. / + 30°C max.						
<b>Pot Life</b>	> 1 h (+5°C at +30°C)						
<b>Waiting Time / Overcoating</b>	Time before filling the tank with water depends on temperature. As an indication :						
	<table border="1"> <thead> <tr> <th>+ 8°C</th> <th>+ 20°C</th> <th>+ 30°C</th> </tr> </thead> <tbody> <tr> <td>12 days</td> <td>7 days</td> <td>5 days</td> </tr> </tbody> </table>	+ 8°C	+ 20°C	+ 30°C	12 days	7 days	5 days
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### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be clean, sound, free of any non-adhering parts, free of oil and grease and must have a minimum tensile adhesion strength of 1,0 N/mm<sup>2</sup>.

In the case of very porous substrates, prior to the application of the waterproofing mortar apply suitable cementitious Sika MonoTop® or SikaRep® mortar as a pore filler.

Surface defects such as gravel nests, spalls, e.t.c. must be repaired using Sika MonoTop® or SikaRep® repair mortars.

The substrate must be damped on the day before the application of SikaTop®-209 Réservoir and re-damped the same day prior to the application. However, make sure that it is free of any water film during application of SikaTop®-209 Réservoir.

### MIXING

Pour all component A into a clean wide necked container (bucket, full opening drum). Progressively add component B while mixing with an electric or pneumatic mixer at a high rotation speed (600 rpm) for 2 to 3 minutes for SikaTop®-209 Réservoir Grey, 5 minutes for SikaTop®-209 Réservoir White, until a homogeneous and uniformly coloured mortar is obtained.

### APPLICATION

SikaTop®-209 Réservoir can be applied with a brush, roller, or by spraying.

Two layers are necessary :

Apply the second layer as soon as the first starts to set (4 to 6 h at + 20°C).

Beware of the condensation phenomenon that can occur on the first layer.

The surface may be finished by smoothing with a brush.

After application, SikaTop®-209 Réservoir must be protected from sunlight and wind.

## CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

## IMPORTANT CONSIDERATIONS

For swimming pools, SikaTop®-209 Réservoir must be covered with tiles.

Avoid using SikaTop®-209 Réservoir when:

- there is a risk of rain (in case of rain, stop work on the tank and protect the product with a polyethylene film for example)
- there is a risk of frost within 24 hours of application
- the ambient moisture is very low (R.H. < 30%)
- there is a risk of condensation (appearance of pearls of water) on the substrate or on the first coat of SikaTop®-209 Réservoir
- there is a risk or prevailing of strong wind, draught or of strong sunlight

## 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.

## 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.

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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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### Product Data Sheet

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