

## Sika Top Seal®-107 Elastic

### High Elastic Protective and Waterproofing Slurry

<b>Product Description</b>	A cement base, 2 component, polymer modified high elastic waterproofing slurry. It is applied to concrete and mortar structures to prevent water infiltration. Sika Top® Seal-107 Elastic complies with the requirements of EN 1504-2 as protective coating.
<b>Uses</b>	Due to its high elasticity, Sika Top Seal®-107 Elastic is applicable on different structures including those subject to thermal movement and vibration such as: <ul style="list-style-type: none"> <li>■ Waterproofing and protection of structures under hydraulic pressure, like water storage tanks, swimming pools, concrete pipes, bridge parapets, water canals, sewage treatment structures...etc.</li> <li>■ Waterproofing and protection of external walls to be buried below ground;</li> <li>■ Internal waterproofing against hydrostatic water pressure of walls and floors in basements and other below ground structures;</li> <li>■ Waterproofing of terraces and balconies on concrete and old tiles substrates;</li> <li>■ Protection of exposed and weathered, new and existing concrete surfaces, as anti-carbonation and as cover compensating in case of insufficient cover (2 mm Sika Top Seal 107 Elastic is equivalent to 6 inches of concrete), Chloride and Sulphate resistant coating. Also for sealing of concrete surfaces cracked by plastic and hydraulic surface shrinkage;</li> <li>■ Elastic coating of precast concrete surfaces, subject to flexural loading and vibration, etc.</li> </ul>
<b>Advantages</b>	Sika Top Seal®-107Elastic provides the following beneficial properties: <ul style="list-style-type: none"> <li>■ Easy application by metal spatula, roller or flat brush, sprayed, even onto vertical walls and ceiling;</li> <li>■ Capable of accommodating substrate flexural strains;</li> <li>■ Crack bridging capability, even on existent cracks or cracks that might open after the product application;</li> <li>■ Optimum adhesion onto almost all substrate, such as for instance concrete, cementitious mortars, stone, ceramics, bricks and wood.</li> <li>■ Non-toxic.</li> </ul>
<b>Certificates of Approval</b>	The Egyptian National Organization for Water and Sewage Certificate for drinking water, water permeability , crack bridging; <ul style="list-style-type: none"> <li>■ Sika Top Seal®-107 Elastic has been tested as per SCAQMD Rule 1168' Result VOC Content &lt; 5 g/L</li> </ul>

#### Product Data

<b>Form</b>	Comp (A): Liquid & Comp (B): Powder
<b>Colour</b>	Grey & White
<b>Packaging</b>	30 kg (A+B)
<b>Storage Conditions</b>	Free from frost and moisture.
<b>Shelf Life</b>	12 months when unopened.

#### Technical Data

<b>Chemical Base</b>	Liquid (Styrene acrylic) & Powder (Cement, Special aggregates and Additives)
<b>Density</b>	Comp (A+B) 1.7± 0.2 kg/l (mixed)
<b>Crack Bridging ability at 23 C</b>	> 1.0 mm.
<b>Initial Tensile adhesion strength</b>	> 0.5 N/mm <sup>2</sup> EN -14891
<b>Tensile adhesion strength 28d after water immersion</b>	> 0.5 N/mm <sup>2</sup> EN -14891
<b>Elongation at break</b>	120 – 140% ASTM D-412
<b>Compressive Strength</b>	30 - 40 N/mm <sup>2</sup> at 20°C after 28 days (mortar consistency) ASTM D-695
<b>Flexural Strength</b>	10 - 12 N/mm <sup>2</sup> at 20°C after 28 days (mortar consistency) EN 196-1
<b>Bond Strength</b>	■ Approx. 1 N/mm <sup>2</sup> after 28 days (sand blasted). ASTM C-882

## Application Details

<b>Mixing Ratio</b>	Slurry 1 (liquid) : 2 (powder) by weight
<b>Coverage</b>	Depending on type of application, two (2) coats always required. Three (3) coats may be required in areas of extremely high infiltration. 1 <sup>st</sup> coat consumption 1-1.5 kg/m <sup>2</sup> on damp surface. 2 <sup>nd</sup> coat consumption 0.8 - 1 kg/m <sup>2</sup> approx.
<b>Surface Preparation</b>	Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. The substrate must be dry or slightly wet. All surfaces must be as true and flat as possible. Saturate absorbent surfaces thoroughly with water before application.
<b>Application Mixing</b>	Sika Top Seal®-107Elastic shall be mixed with a low speed (< 500 rpm) electric drill mixer. Pour the liquid component (A) into a suitable mixing container. While stirring slowly, add the powder component (B) to component A. Mix thoroughly for at least 3 minutes to the required consistency.
<b>Application</b>	While the surface is still damp (no standing water) apply the first coat and leave to harden (2-6 hours). For slurry consistency, apply with a hard-plastic bristled brush or broom. For trowelable mortars, use a notched trowel. After the second coat has been applied, finish by rubbing down with a soft dry sponge.
<b>Curing</b>	In severe heat and/or wind, protection of the Sika Top Seal® -107Elastic is recommended. As with all cement based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost. For further clarification please contact Sika Technical Service.
<b>Pot Life</b>	45 minutes at 25°C, at higher temperature consult Sika Technical Services.
<b>Important Recommendations</b>	Minimum ambient and substrate temperature +8 °C. Never apply more than 4 kg/m <sup>2</sup> for one layer.
<b>Cleaning</b>	Do not leave material to harden before cleaning tools and equipment with water. Hardened material can only be removed mechanically.

## Safety Instructions

<b>Ecology</b>	Do not dispose of into water or soil, but according to local regulations.
<b>Transport</b>	Non-hazardous.
<b>Safety Precautions</b>	■ Wear gloves and goggles. In contact with eyes or skin product, may cause irritation.
<b>Toxicity</b>	■ Non-Toxic under relevant health and safety codes.

## 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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Sika Top Seal® -107 Elastic 2/2