

SikaTop® Seal-109 MY

Polymer-modified, flexible, cementitious waterproofing coating

Product Description

SikaTop® Seal-109 MY is a cementitious, two-part, polymer-modified flexible waterproofing coating. It is applied to concrete and mortar to prevent water infiltration.

Uses

Waterproofing, sealing of hairline cracks and as a protective coating against aggressive elements such as carbon dioxide (for example, in concrete repair work), frost and de-icing agents.

Areas of application include water tanks, basements, car parks, terraces, balconies, bridges, retaining walls, swimming pools, RC gutters, bathroom floors and walls, planter boxes, wet rooms for example kitchens, waste water treatment plants, shower rooms and laundries.

Characteristics / Advantages

- Good crack bridging capability (up to 1 mm at 20°C)
- Pre-batched components
- Mixes and applies easily
- Easily applied by roller or brush
- Good adhesion to sound substrates
- Impermeable
- Increased frost and salt resistance
- Decreases carbon dioxide penetration
- Non-toxic, same as cement
- Flexible
- Resistant to freezing and thawing (-10°C)
- Economical

Product Data

Form

Appearance / Colours

Part A:	White Liquid
Part B	Grey Powder
Parts A + B (mixed)	Dark Grey Slurry

Packaging

36 kg sets (Part A: 10 kg and Part B: 26 kg)

Storage

Storage Conditions / Shelf Life

6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging, in cool, dry conditions. Protect from direct sunlight.



Technical Data

Chemical Base	Polymer modified Portland cement
Density	1.3 – 1.4 kg per litre (mixed)
Resistance to Water Penetration	No penetration at 1.0 kg/m ² for 6 hours (DIN 1048: Part 5)

Mechanical / Physical Properties

Adhesive Strength	> 0.7 N/mm ² (On Concrete)
Tensile Strength	> 1.2 MPa
Elongation at Break	> 100%
Shore A Hardness	> 80

System Information

Application Details

Consumption	Minimum 2 coats at approximately 1.0 kg/m ² per coat. For areas subject to high water ingress, apply a third coat at 1.0 kg/m ² Always ensure waterproof coatings are applied in a minimum of 2 coats.
Substrate Quality	Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Steel and iron surfaces must be clean, free from scale, rust, grease and oil. All surfaces must be as true and flat as possible.
Substrate Preparation	Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of SikaTop [®] Seal-109 MY. However, no loose standing water should be on the surface before application.

Application Conditions / Limitations

Ambient & Substrate Temperature	+8°C minimum
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Application Instructions

Mixing	Under normal circumstances, when the full quantities of both parts are mixed together, a creamy consistency will result. Mix in a clean container by slowly adding the powder part to the liquid part and stirring with a low speed mixer.
Application Method / Tools	Whilst the substrate is still damp but free of standing water, apply the first coat by brush, roller or squeegee, working the material well into the surface to achieve full bond. Allow 4 – 8 hours (20°C) for the first coat to cure before applying the following coats. For large areas, SikaTop [®] Seal-109 MY can be applied by spray using a suitable worm type mixer/pump. An additional stripe coat is recommended over cracks, wall/floor intersections, etc. as these locations are where movement is most likely to be expected in service.

Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.
Pot Life (maximum open time)	~ 30 minutes (at 20°C) Pot life is shorter at higher temperatures. Cover material container when not in use.
Notes on Application / Limitations	<ul style="list-style-type: none"> ■ Never apply more than 2 kg/m² of SikaTop[®] Seal-109 MY in a single layer. ■ For better keying, a bonding coat is recommended using a mixture of SikaLatex[®], cement, water and fine sand. For details, please refer to our SikaLatex[®] product data sheet.
Curing Details	
Curing	Special curing methods are generally not required but some precautions should be taken for applications directly under sunlight and windy conditions.
Notes	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
Health and Safety Information	
Protective Measures	<p>During application in closed rooms, pits and shafts, etc., sufficient ventilation must be provided. Keep away open light including welding.</p> <p>Always use the basic principles of industrial hygiene, such as rubber gloves, goggles and protective clothing as this will enable this product to be used safely. Change soiled work clothes and wash hands before breaks and after finishing work.</p> <p>Local regulations as well as health and safety advice on packaging labels must be observed.</p>
Important Notes	<p>Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.</p> <p>Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Material Safety Data Sheet (available upon request)</p>

Construction



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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