BUILDING TRUST

PRODUCT DATA SHEET

SikaTop® Seal-109 MY

POLYMER-MODIFIED, FLEXIBLE, CEMENTITIOUS WATERPROOFING COATING

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

APPROVALS / STANDARDS

Singapore Green Label: 022-085-2370 "Eco-Friendly Building Material"

PRODUCT INFORMATION

Chemical Base	Polymer modified Portland cement	
Packaging	Part A	10 kg
	Part B	26 kg
	Part A + B	36 kg set
Appearance / Colour	Part A	White liquid
	Part B	Grey powder
	Parts A + B (mixed)	Dark grey slurry
Shelf Life	6 months from the date of production	
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging, in cool, dry conditions. Keep away from direct sunlight. Protect from rain, condensation and high humidity.	
Density	1.7–1.9 kg/l (mixed)	

TECHNICAL INFORMATION

Tensile Strength	~0.7 N/mm²	(ASTM D412-06a, Dumbell A test piece)
Elongation at Break	> 100 %	(ASTM D412-06a, Dumbell A test piece)
Tensile Adhesion Strength	~0.8 N/mm²	(EN 1542, 20 mm Ø dolly)
Permeability to Water Vapour	< 5 m	(BS EN ISO 7783:2011, Wet Cup Method A)
Capillary Absorption	< 0.1 kg/m². $h^{0.5}$	(EN 1062-3)
Permeability to Carbon Dioxide	> 50 m	(BS EN 1062-6: 2002, Method B)

APPLICATION INFORMATION

Consumption	For bathroom floors, shower area floors and wet kitchen floors, minimum 2 coats at approximately 1.0 kg/m² per coat. Splash zone area of wall with tiles, eg. bathroom wall, shower area wall and wet kitchen wall, 1 coat at approximately 1.0–1.5 kg/m² per coat. All other areas, minimum 2 coats at approximately 1.0 kg/m² per coat. For areas subject to high water ingress, apply a third coat at 1.0 kg/m².
Ambient Air Temperature	min. +8 °C
Substrate Temperature	min. +8 °C
Pot Life	~30 minutes (at +20 °C) Pot life is shorter at higher temperatures. Cover material container when not in use.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

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 paddle attached to a slow speed mixer (400 - 500 rpm).

APPLICATION

Whilst the substrate is still damp but free from standing water, apply the first coat by brush, broom, roller or squeegee (if the surface is flat enough), working the material well into the substrate to achieve full bond. Allow 4–8 hours (+20 °C) for the first coat to cure before applying the following coats in the same manner. 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 or cured material can only be mechanically removed.

LIMITATIONS

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.

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, stor-

age 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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