

PRODUCT DATA SHEET

SikaTop[®]-109 Elasto

CRACK BRIDGING CEMENTITIOUS POLYMER-MODIFIED WATERPROOFING COATING

DESCRIPTION

SikaTop[®]-109 Elasto is a cementitious, two-part, crack bridging cementitious polymer-modified 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, 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
- Air cure

PRODUCT INFORMATION

Chemical base	Polymer modified Portland cement	
Packaging	35 kg sets (Part A: 14 kg and Part B: 21 kg)	
Appearance / Colour	Part A:	Liquid / White
	Part B:	Powder / Grey
	Parts A + B (mixed):	Slurry / Dark grey
Shelf life	9 months from the date of production if stored properly in original, unopened and undamaged sealed packaging	
Storage conditions	Store in cool, dry conditions. Keep away from direct sunlight.	
Density	~1.5 kg/L (mixed)	

TECHNICAL INFORMATION

Tensile Strength	~1.0 N/mm ²	(ASTM D 412)
Elongation at Break	> 150 %	

Tensile Adhesion Strength	> 0.7 N/mm ² (on concrete)	
Crack Bridging Ability	Up to 1 mm (2 coats)	(EN 1062-7)
Water Penetration under Pressure	No penetration at consumption of 1.0 kg/m ² for 6 hours	(DIN 1048: Part 5)

APPLICATION INFORMATION

Consumption	Minimum 2 coats at approximately 1.0 kg/m ² per coat. For areas subject to high water ingress, apply a third coats at 1.0 kg/m ² . Always ensure waterproof coatings are applied in a minimum of 2 coats.	
Ambient Air Temperature	+10 °C min. / +35 °C max.	
Substrate Temperature	+10 °C min. / +35 °C max.	
Pot Life	~30 minutes (at +30 °C) Pot life is shorter at higher temperatures. Cover material container when not in use.	
Curing Treatment	Curing method is air cure	

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. Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of SikaTop®-109 Elasto. 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 low speed mixer.

APPLICATION

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 – 6 hours (+30 °C) for the first coat to cure before applying the following coats. For large areas, SikaTop®-109 Elasto 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 and/or cured material can only be mechanically removed.

LIMITATIONS

- Never apply more than 2 kg/m² of SikaTop®-109 Elasto in a single layer.
- For roofing or other structures directly exposed to U.V light, it is suggested that SikaTop is protected with 2-3 cm of cement screed. To get good bonding of cement screed, 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 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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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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