

PRODUCT DATA SHEET

SikaFill®-90 MP

Elastic waterproofing covering, for on-the-spot application

DESCRIPTION

One component, coloured, water based, elastic coating in form of emulsion, with a creamy consistency, based on styrene-acrylic copolymers. After its curing forms a flexible, long term resistant waterproofing membrane.

USES

Waterproofing of roofs on various substrates, such as ceramic tiles, fibre reinforced mortars, zinc, aluminium, wood, bricks, mortars, concrete, bituminous felts with aluminium as final coating, e.t.c.

- Protection of partition walls against surface water filtrations
- Vertical side walls, pipings, e.t.c.
- Bridging of joints and fissures
- Repair of tiles and zinc eaves gutters
- Treatment of meeting points in chimneys

For its application on PVC or polyester bases, and on paint, it is advisable to carry out previous on-the-spot tests to determine their compatibility and whether it is necessary to carry out a sanding beforehand.

FEATURES

- Impermeable against rain and splashes
- Highly elastic
- Resistant against weather ageing
- Easy to apply
- Good penetration
- Crack bridging ability for micro-cracks
- Good adhesion to most common substrates
- Water based, not toxic or flammable

CERTIFICATES AND TEST REPORTS

EN 1504-2:2004 - Surface protection product – Coating
Principle 1 (Protection against ingress)
Method 1.3 Principle 2 (Moisture control)
Method 2.3 and Principle 8 (Increasing resistivity)
Method 8.3 according to EN 1504-9:2008

PRODUCT INFORMATION

Composition	Styrene-acrylic copolymers in water		
Packaging	12 kg containers		
Appearance and colour	White paste		
Shelf life	18 months from date of production		
Storage conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from frost and direct sunlight. Always refer to packaging.		
Density	~1.40 kg/lit		
Solid content by mass	~68 %		EN ISO 3251

TECHNICAL INFORMATION

Tensile strength	≥10 kg/cm²		(EN 53165)
Tensile strain at break	280 % (ASTM D-412, Test Method A)		
Tensile adhesion strength	≥1,0 Mpa		(EN 1542)
Reaction to fire	Class B-s1,do		(EN 13501-1)
Behaviour after artificial weathering	Artificial ageing	Elongation at break	(ASTM D-412)
	800 h at 70 °C	245 %	
Permeability to water vapour	S _D < 5m (Class I)		(EN ISO 7783)
Capillary absorption	w < 0,1 kg/m²*h ^{0,5}		(EN 1062-3)
Permeability to carbon dioxide	S _D > 50m		(EN 1062-6)
Solar reflectance	Initial Solar Reflectance	0.71 (±0.02)	(ASTM C 1549)
Thermal emittance	Initial Thermal Emittance	0.93 (±0.01)	(ASTM E408)
Solar reflectance index	Initial SRI (Medium Wind)	88 (±1)	(ASTM E1980-11)

APPLICATION INFORMATION

Consumption	<p>On roofs and terraces: 1 kg/m² – 2 kg/m² in two or more layers, depending on the substrate.</p> <p>On vertical side walls: at least 1 kg/m² applied in two coats.</p> <p>These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage, e.t.c.</p>	
Ambient air temperature	Minimum	+5 °C
	Maximum	+35 °C
Relative air humidity	≤75 % RH	
Dew point	Beware of condensation. The substrate and uncured membrane must be at least 3 °C above dew point to reduce the risk of condensation or blooming of the membrane finish.	
Substrate temperature	Minimum	+5 °C
	Maximum	+35 °C
Drying time	Touch dry	~2 hours (at +20 °C)
	Total drying	~3 – 5 hours (at +20 °C)
Note: The above stated time are approximate and are affected by the environmental conditions.		

SYSTEM INFORMATION

System structure

For applications on vertical side walls:

Priming Layer	1 x SikaFill®-90 MP diluted (for very porous substrates)
Coating	2 x SikaFill®-90 MP

For applications on roofs:

Priming Layer	1 x SikaFill®-90 MP diluted (for very porous substrates)
Coating	2 x SikaFill®-90 MP

For application on roofs (higher mechanical resistance system)

Priming Layer	1 x SikaFill®-90 MP diluted (for very porous substrates)
Coating	1 x SikaFill®-90 MP
Reinforcement	Sika® FiberNet (white) / Sikalastic® Fleece
Coating	1 x SikaFill®-90 MP

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.

IMPORTANT CONSIDERATIONS

- The product forms a final, finishing layer. Surface irregularities and areas with standing water must be repaired with appropriate repairing mortars before the application of SikaFill®-90 MP
- SikaFill®-90 MP is not recommended for constant or very long immersion in water
- At least 2 coats must be applied on the primer
- In case a membrane with higher mechanical resistance is required, embed the Sika® FiberNet (white) / Sikalastic® Fleece into the system or any other reinforcing material that is compatible with SikaFill®-90 MP
- Do not place piercing/sharp objects on the membrane
- In order to obtain adherence on asphalt sheets with an anti-adhesive polyethylene film, prior to the application of SikaFill®-90 MP, the film must be burned and dry quartz sand must be applied, while the bituminous coating is still tacky

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

Substrate preparation equipment

- Abrasive blast cleaning / planing / scarifying or grinding equipment
- High pressure power washer

Mixing Equipment

- Electric single paddle mixer

Application Equipment

- Brush
- Roller
- Airless spray

SUBSTRATE QUALITY

The substrate must be clean, dry and free of all contamination such as dirt, oil, grease, coatings, e.t.c. which prevent proper adhesion.

The substrate must be sound and of sufficient strength. If in doubt, apply a test area first.

SUBSTRATE PREPARATION

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repair the substrate, using appropriate Sika® Mono-Top®, SikaTop®, SikaRep® repair mortars. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Prior to application, stir SikaFill®-90 MP gently but thoroughly at least for 1 minute in order to achieve a homogeneous mixture. For mixing, an electric single paddle mixer (300 – 400 r.p.m.) with a spiral blade can be used.

APPLICATION

The application can be carried out by means of a short-haired wool roller, brush or by airless gunning. Using a short-haired roller or a brush, apply a layer of the product diluted at a ratio of 25 % with water, seeing to it that it penetrates well in all the cracks and fissures. Once the priming is dry add successive layers of SikaFill®-90 MP until the desired film thickness is obtained. Before applying a subsequent layer, the previous one must be completely dry. Depending on the uses, and in the case of its use being necessary, the Sika® FiberNet / Sikalastic® Fleece will be placed on the first, still fresh coat of SikaFill®-90 MP applied without diluting it, covering it with a second layer of SikaFill®-90 MP without diluting it. Overlapping of Sika® FiberNet / Sikalastic® Fleece will be carried out at 5 to 10 cm width.

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.

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.

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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