

# PRODUCT DATA SHEET

## SikaFill®-01

Elastic waterproofing coating for roofing

### PRODUCT DESCRIPTION

SikaFill®-01 is an elastic covering containing styrene-acrylic co-polymers. Once dry, SikaFill®-01 forms a flexible, waterproof and durable film.

### USES

Waterproofing of roofs on different types of substrates:

- Very porous tile terrace
- Pneumatically-applied polyurethane
- Fibrocement
- Zinc
- Aluminium
- Wood
- Tiles
- Brick
- Mortars
- Concrete
- Asphalt sheets with finishing of aluminium or slate, etc.

Protection of partition walls against surface water filtrations.

- Vertical side walls, pipings, etc.
- Bridging of joints and cracks.
- Repair of tiles and zinc eaves gutters.
- Treatment of meeting points in chimneys

To apply on PVC or polyester substrates and on top of paint: it is recommended to first carry out tests to determine compatibility and whether it is necessary to carry out sanding / surface abrasion beforehand.

### CHARACTERISTICS / ADVANTAGES

- Waterproof against rain and splashes.
- High elasticity.
- Passable.
- High weather resistance.
- Easy cold application by conventional methods.
- It can be mixed without any difficulty and without forming clots, lumps or hard deposits.
- Good penetration in cracks and resistant to cracking.
- Can be used in areas with dilation movements without cracking.
- Good adhesion to most substrates: concrete, mortar, fibrocement, tiles, bricks, steel, zinc, aluminium, bituminous.
- Water-based, not toxic or flammable.

### PRODUCT INFORMATION

<b>Chemical Base</b>	Water based emulsion using styrene-acrylic copolymers.
<b>Packaging</b>	5L and 10 L cans.
<b>Colour</b>	Grey, white and tile-red viscous liquid.
<b>Shelf Life</b>	12 months from date of production

<b>Storage Conditions</b>	Store in undamaged and unopened, original, well-sealed containers. Store in cool and dry conditions. Protect from frosts and direct sunlight.
<b>Density</b>	Approx. 1.3 kg/L
<b>Solid content by weight</b>	Approx. 60% (in weight)
<b>Tensile Strength</b>	Min. 10 kg/cm <sup>2</sup> .
<b>Elongation at Break</b>	350%
<b>Foldability at Low Temperature</b>	It does not crack.
<b>Thermal Resistance</b>	Mass loss < 10%. Elongation loss < 35%.
<b>Artificial Ageing</b>	Elongation loss < 40%. 1000 h at 70°C

## SYSTEM INFORMATION

### System Structure

- For vertical walls:  
1 Priming Layer with diluted SikaFill®-01 (for very porous substrates).  
2 Layers of SikaFill®-01.
- For roofing:  
1 Priming Layer with diluted SikaFill®-01 (for very porous substrates).  
1 Layer of SikaFill®-01.  
Glass fibre roof mesh or Polyester matting.  
1 Layer of SikaFill®-01.
- For roofing coatings that fulfil the DITE: (system thickness 1,9 mm).

<b>Primer</b>	<b>Dilute SikaFill®-01 with water 20:80</b>
1 <sup>o</sup> Layer	1 x SikaFill®-01 (consumption ~ 1,5 Kg/m <sup>2</sup> ) Shrink Fleece
2 <sup>o</sup> Layer	1 x SikaFill®-01 (consumption ~ 1,0 Kg/m <sup>2</sup> )

## APPLICATION INFORMATION

<b>Consumption / Yield / Dosage (PRINT single line)</b>	On roofs and terraces: at least 2 kg/m <sup>2</sup> in two or more layers. On vertical walls: at least 1 kg/m <sup>2</sup> applied in two coats. To fulfil the DITE see the table above
<b>Ambient Air Temperature</b>	Min. +5°C / Max. +35°C.
<b>Substrate Temperature</b>	Min. +5°C / Max. +35°C.
<b>Drying time</b>	Not tacky: Approx. 2 hours. (UNE 48.086) Total curing: Approx. 3-5 hours. (at 20°C)

## APPLICATION INSTRUCTIONS

### MIXING

Mix SikaFill®-01 (manually or with a low-revolution mixer) until it is completely homogeneous.

### APPLICATION

Apply with a short-pile wool roller, brush, or by airless gunning.

Priming: Using a short-pile roller or a brush, apply a layer of the product diluting 3 parts of SikaFill®-01 per 1 part water, making sure that it penetrates well into all the cracks.

Once the priming layer is dry (approximately 12 hours after having applied it in normal temperatures and relatively humid conditions), add successive coats of SikaFill®-01 until the desired film thickness is obtained. Before applying a coat, the previous one has to be completely dry.

Depending on the uses, and in the case of its use being necessary, the glass fabric reinforcement or polyester fabric will be placed on the first, still fresh coat of SikaFill®-01 applied without diluting, covering it with a second layer of SikaFill®-01, again without diluting. The joints of glass fabric reinforcement or polyester fabric will be made by an overlapping width of between 3 and 5 cm.

## Characteristics

Material:	Glass fabric
Weight:	64 g/m <sup>2</sup>
Thickness	0.1 mm
Mechanical resistances:	19 kg/cm <sup>2</sup>
Warp:	17 kg/cm <sup>2</sup>
Weft:	
Packaging:	1 x 50 m

## CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

## LIMITATIONS

- SikaFill®-01 should not be used in places where it is in permanent contact with water, due to storage, flooding or condensations.
- SikaFill®-01 is a finishing paint.
- If a membrane of greater mechanical resistance is required, insert the Armafill glass fabric reinforcement into the system or insert any other reinforcing system that is compatible with SikaFill®-01.
- Do not place piercing/sharp objects on the treatment.
- Not recommended for constant or very long immersion in water.
- At least 2 coats must be applied on the primer.
- In order to obtain good adhesion on asphalt sheets with an anti-adhesive polyethylene film, it has to be burnt before applying SikaFill®-01.

## VALUE BASE

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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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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### Product Data Sheet

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