

# Sikafill®100

## Elastic waterproofing covering for roofing

<b>Product Description</b>	Elastic covering of creamy consistency, using styrene-acrylic co-polymers in watery emulsion which, once dry, forms a flexible, waterproofing and durable film.
<b>Uses</b>	<ul style="list-style-type: none"> <li>■ Waterproofing of roofs on different types of substrates:               <ul style="list-style-type: none"> <li>- Very porous tile terrace</li> <li>- Pneumatically applied polyurethane</li> <li>- Fibrocement</li> <li>- Zinc</li> <li>- Aluminium</li> <li>- Wood</li> <li>- Tiles</li> <li>- Brick</li> <li>- Mortars</li> <li>- Concrete</li> <li>- Asphalt sheets with finishing of aluminium or slate, etc.</li> </ul> </li> <li>■ Protection of partition walls against surface water filtrations.</li> <li>■ Vertical side walls, pipings, etc.</li> <li>■ Bridging of joints and cracks.</li> <li>■ Repair of tiles and zinc eaves gutters.</li> <li>■ Treatment of meeting points in chimneys.</li> </ul> <p>To apply on PVC or polyester substrates and on top of paint. It is recommended to carry out previous tests to determine compatibility and whether it is necessary to carry out a sanding beforehand.</p>
<b>Characteristics/ Advantages</b>	<ul style="list-style-type: none"> <li>■ Waterproof to rain and splashes.</li> <li>■ High elasticity.</li> <li>■ Passable.</li> <li>■ High weather resistance.</li> <li>■ Easy cold application by conventional methods.</li> <li>■ It can be mixed without any difficulty and it does not present clots, lumps or hard deposits.</li> <li>■ Good penetration in cracks and it is resistant to cracking.</li> <li>■ It can be used in areas with dilation movements without cracking.</li> <li>■ Good adhesion to most substrates: concrete, mortar, fibrocement, tiles, bricks, steel, zinc, aluminium, bituminous.</li> <li>■ Water based, not toxic or inflammable.</li> </ul>
<b>Tests</b>	
<b>Approvals/ Standards</b>	<p>It complies with the norm UNE 53.413, on «Flexible coverings using polymers in watery dispersion, without reinforcement, for waterproofing in construction», applicable to vertical side walls.</p> <p>Using appropriate synthetic fabric reinforcement, it complies with the Norm UNE 53,410, on «Flexible on-the-spot application sheets using copolymers in watery dispersion, with reinforcement, for waterproofing in construction».</p> <p>Roofing System applied in liquid form, based on aqueous dispersion polymers certified with European Technical Approval (ETA) N. 08/0270.</p>



## Product Data

### Form

**Appearance / Colours** Grey, white and tile red viscous liquid.

**Packaging** 1.5 and 25 kg cans.

### Storage

**Storage Conditions/  
Shelf-Life** 12 months from date of production if stored in undamaged and unopened, original well-sealed bags. Store in cool and dry conditions. Protect it from frosts and direct sunlight.

### Technical data

**Chemical Base** Watery emulsion using styrene-acrylic copolymers.

**Density** Approx. 1.3 kg/l.

**Solid Content** Approx. 60% (in weight)

**Elongation at Break** 350% (UNE 53,165)

**Tensile Strength** Min. 10 kg/cm<sup>2</sup>. (UNE 53,165)

**Behaviour when folding in Cold** It does not crack. (UNE 53,358)

**Impact Strength** ≥ 500 mm height of falling. (UNE 53,358)

**Aging Stability** Elongation loss < 40%.  
1000 h at 70°C (UNE 53,104)

**Thermal Stability** Mass loss < 10%.  
Elongation loss < 35%. (UNE 53,358)

### System information

#### System Structure

- For vertical walls:  
1 Priming Layer with diluted Sikafill®100. (For very porous substrates).  
2 Layers of Sikafill®100
- For roofing:  
  
1 Priming Layer with diluted Sikafill®100. (For very porous substrates).  
1 Layer of Sikafill®100  
Placement of Armafill® mesh  
1 Layer of Sikafill®100
- For roofing coatings that fulfil the DITE: ( system thickness 1,9 mm)

Primer	1 x Sikafill®100 diluted with water 20:80
1° Layer	1 x Sikafill®100 ( consumption ~ 1,5 Kg/m2) Shrink Sikalastic Fleece 120
2° Layer	1 x Sikafill®100 ( consumption ~ 1,0 Kg/m2)

### Application Details

**Consumption** 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

### Application Conditions / Limitations

**Ambient Temperature** Min. +5° C / Max. +35°C.

**Substrate Temperature** Min. +5° C / Max. +35°C.

### Application Instructions

**Mixing** Mix Sikafill® (manually or with a low-revolution mixer) until it is completely homogeneous.

**Application Method/  
Tools**

Apply with a short-haired wool roller, brush or by airless gunning. Using a short-haired roller or a brush, apply a layer of the product diluting 3 parts of Sikafill per 1 part water, making sure that it penetrates well in 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 layers of Sikafill®100 until the desired film thickness is obtained. Before applying a layer, the previous one has to be completely dry.

Depending on the uses, and in the case of its use being necessary, the Armafill glass fabric reinforcement or the Armafill polyester fabric will be placed on the first, still fresh coat of Sikafill applied without diluting, covering it with a second layer of Sikafill again without diluting.

The joints of Armafill or Armafill Polyester will be made by an overlapping width of between 3 and 5 cm.

Characteristics	ARMAFILL
Material:	Glass fabric
Weight:	64 g/m <sup>2</sup>
Thickness:	0.1 mm.
Mechanical resistances:	
Warp:	19 kg/cm <sup>2</sup>
Weft:	17 kg/cm <sup>2</sup>
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.

**Notes on Application/  
Limitations**

It should not be used in places where it is in permanent contact with water, due to storage, flooding or condensations.

It is a finishing paint.

In case that a membrane of greater mechanical resistance is wanted, insert the Armafill glass fabric reinforcement into the system or insert any other reinforcing system that is compatible with Sikafill.

In visitable areas and with frequent traffic, it is advisable to apply a finishing layer of Sikagard 550 W ES Elastocolor as a protection.

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.

**Curing Details****Curing Time**

Not tacky: Approx. 2 hours. (UNE 48.086)  
Total curing: Approx. 3-5 hours. (at 20°C)

**Value base**

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measures data may vary due to circumstances beyond our control.

**Health and Safety  
Information**

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 of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery.

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