

# PRODUCT DATA SHEET

## Sika® Elastic Roof

### 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, such as:

1. Vertical side walls, pipings, e.t.c.
2. Bridging of joints and fissures.
3. Repair of tiles and zinc eaves gutters.
4. 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.

#### CHARACTERISTICS / ADVANTAGES

- 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

#### PRODUCT INFORMATION

<b>Chemical base</b>	Watery emulsion with styrene-acrylic copolymers
<b>Packaging</b>	12 kg containers
<b>Colour</b>	White emulsion
<b>Shelf life</b>	18 months from date of production
<b>Storage conditions</b>	Store properly in its original, closed and sealed packaging in dry conditions, protected from moisture and direct sunlight.
<b>Density</b>	~1.28 kg/l (at +20°C)
<b>Solid content by weight</b>	~ 60%

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	≥120 N/cm <sup>2</sup>	(ASTM D-412, Test Method A)	
<b>Elongation at Break</b>	~ 450%	(ASTM D-412, Test Method A)	
<b>Artificial Ageing</b>	<b>Artificial Ageing</b> 800h, 70°C	<b>Elongation at break</b> ~ 300%	(ASTM D-412, Test Method A)
	Test QUV, 400h	~ 320%	
<b>Behaviour after Artificial Weathering</b>	<b>Artificial ageing</b> QUV, 400h	<b>Loss of mass</b> < 3%	(ASTM D-412, Test Method A)
	<b>Solar Reflectance</b>	<b>Solar Reflectance (initial)</b> 0.80	
	<b>Initial Emittance</b> 0.88		ASTM E 408, C1371, other standards

## SYSTEMS

### System Structure

For applications on vertical side walls & roofs:

Layer	Product
Primer	1 x Sika® Elastic Roof diluted (for very porous substrates)
Coating	2 x Sika® Elastic Roof

For applications on roofs (higher mechanical resistance):

Layer	Product
Primer	1 x Sika® Elastic Roof diluted (for very porous substrates)
Coating	1 x Sika® Elastic Roof
Reinforcement	Sika® FiberNet (white)
Coating	1 x Sika® Elastic Roof

## APPLICATION INFORMATION

<b>Yield</b>	On roofs and terraces: 1 - 2 kg/m <sup>2</sup> in two or more layers, depending on the substrate. On vertical side walls: at least 1 kg/m <sup>2</sup> applied in two coats. 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.
<b>Ambient Air Temperature</b>	+5° C min. / +35°C max.
<b>Relative Air Humidity</b>	75% max. R.H.
<b>Substrate Temperature</b>	+5° C min. / +35°C max.
<b>Dew Point</b>	Beware of condensation! The substrate and uncured membrane must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the membrane finish.
<b>Substrate Pre-Treatment</b>	Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repair the substrate, using appropriate Sika® MonoTop® or 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. 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.

## 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.

## APPLICATION INSTRUCTIONS

### MIXING

Shake Sika® Elastic Roof (by manual means, or with a low-speed mixer) prior to its use until it is completely homogeneous.

### APPLICATION

The application can be carried out by means of a short-haired wool roller, brush or by airless spray.

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 Sika® Elastic Roof 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 will be placed on the first, still fresh coat of Sika® Elastic Roof applied without diluting it, covering it with a second layer of Sika® Elastic Roof without diluting it.

Overlapping of Sika® FiberNet must be done at 3 to 5 cm width.

### CLEANING OF TOOLS

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.

### LIMITATIONS

- 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 Sika® Elastic Roof.
- Sika® Elastic Roof is not recommended for permanent contact with water.
- Sika® Elastic Roof is not recommended for immersion in water.
- Apply always 2 primer coats over substrates with high porosity.
- In the event that a membrane of greater mechanical resistance is wanted, insert the Sika® FiberNet (white) into the system or insert any other reinforcing system that is compatible boost with Sika® Elastic Roof.
- In visitable areas and with frequent traffic, it is advisable to apply a finishing layer of Sikagard®-550 W Elastic as a protection.
- Do not place piercing objects on the coating.
- In order to obtain adherence on asphalt sheets with an anti-adhesive polyethylene film, it will have to be burn before applying Sika® Elastic Roof.

## 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, 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.

**Sika Hellas ABEE**  
15 Protomagias Str.  
14568 Kryoneri  
Attica-Greece  
Tel.: +30 210 8160 600  
Fax: +30 210 8160 606  
www.sika.gr | sika@gr.sika.com



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