

**Product Data Sheet**  
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Sikafill® h

# Sikafill® h

Flexible liquid applied, acrylic waterproofing membrane system

## Product Description

Sikafill® h is a flexible, liquid applied, single component, ultra violet and weather resistant, acrylic waterproofing membrane for all types of exposed roof.

## Uses

- Exposes roof waterproofing
- Impervious coating on roofs (flat and slope) and concrete structures
- As protective coating in infrastructure projects
- On non-trafficked areas
- Excellent adhesion to concrete, brickwork, corrugated asbestos, and asbestos cement.

## Characteristics / Advantages

- Crack-bridging
- Flexible
- Water vapour permeable
- Simple application (even at detailing)
- Economical
- Bonds well to all types of masonry substrate
- High diffusion resistance against CO<sub>2</sub>
- Ultra violet and weather resistant

## Product Data

### Form

**Appearance /Colours** Sikafill® h: white liquid  
Primer : colourless liquid

**Packaging** Sikafill h :20 kg container  
Sikafill h Primer: 5.00 kg container

### Storage

**Storage Conditions/ Shelf-Life** 6 months from date of production if stored properly in undamaged and unopened original sealed packaging in dry and cool conditions. Liquid component must be protected from frost.

## Technical Data

**Chemical Base** Acrylic polymer dispersion

**Density** Sikafill® h:~1.24 kg/l at 27° C  
Primer :~0.91 kg/l at 27° C

**Layer Thickness** With Sika® Fab-1 ~1.2 mm



## Mechanical / Physical Properties

<b>Tensile Strength</b>	1.5 N/mm <sup>2</sup> after 14 days	(According to ASTM D 638)
<b>Bond Strength</b>	1.5 N/mm <sup>2</sup>	(According to ISO 4624)
<b>Crack bridging properties</b>	2 mm	(According to ASTM C 1305)
<b>Moisture permeability</b>	Passes	(According to IS101)
<b>Crack resistance</b>	Passes 3 mm mandrel	(According to IS101)
<b>Salt spray resistance</b>	Satisfactory	
<b>Workable time</b>	15 minutes at +27° C	
<b>Tack free time</b>	25 minutes at +27° C	
<b>Water permeability</b>	Passes	(According to IS 2645)
<b>Accelerated weathering, 500 hours</b>	No cracking / no blister	(According to IS 101)
<b>Elongation at break</b>	25% with Sika <sup>®</sup> Fab-1	(According to DIN 53504)

## System Information

<b>System Structure</b>	<i>Exposed Roofing-system, without UV-protection</i>
Layer thickness:	1.5 mm
Primer:	1 x Sikafill <sup>®</sup> h Primer
Base Coating:	1 x Sikafill <sup>®</sup> h
Fabric reinforcement :	1 x Sika Fab-1
Top Coat :	1x Sikafill <sup>®</sup> h

## Application Details

<b>Consumption / Dosage</b>	Sikafill <sup>®</sup> h Primer : 0.20-0.25 kg/m <sup>2</sup> per coat depending on the substrate Sikafill <sup>®</sup> h : 1 <sup>st</sup> coat = ~ 0.3 kg /m <sup>2</sup> , 2 <sup>nd</sup> coat = ~1.0 kg/m <sup>2</sup> Total thickness for 2 coats is around 0.6 mm. The consumption will be more for uneven surface
<b>Substrate Quality</b>	The cementitious substrate should be sound and of sufficient strength (min. 25 N/mm <sup>2</sup> ). Minimum pull-off strength 1.5 N/mm <sup>2</sup> . Free from grease, oil and contamination.
<b>Substrate Preparation</b>	All dust, loose and friable materials and glaze or varnish of tiles must be completely removed by mechanical means. Existing coatings have to be inspected, cleaned and mechanically ground to achieve a sound, gripping substrate. In case of bad adhesion to the substrate, existing coatings have to be removed.  The uneven surface should be properly treated by suitable Sika material to get a plain surface.

## Application Conditions / Limitations

<b>Substrate Temperature</b>	+10°C min / +40°C max
<b>Ambient Temperature</b>	+10°C min / +40°C max

## Application Instructions

<b>Priming</b>	Prime the prepared substrate with Sikafill <sup>®</sup> h Primer by brush or roller.
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<b>Application Method / Tools</b>	<p>Sikafill® h is supplied in pre measured packs in ready to use form. Stir thoroughly before application.</p> <p>Within 45 minutes of priming apply 1<sup>st</sup> coat of Sikafill® h by brush or roller. Do not spoil the dry surface while walking on it for application.</p> <p>After 12 hours apply the 2<sup>nd</sup> coat of Sikafill® h following the same above procedure.</p>			
<b>Cleaning of Tools</b>	<p>Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.</p>			
<b>Waiting Time / Overcoating</b>	<p><i>Waiting time between coats</i></p> <table border="1"> <tr> <td>+30°C</td> <td>12 hours</td> </tr> </table>		+30°C	12 hours
+30°C	12 hours			
<b>Value Base</b>	<p>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.</p>			
<b>Health and Safety Information</b>	<p>For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.</p>			
<b>Legal Notes</b>	<p>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.</p>			

