

## PRODUCT DATA SHEET

# Sika ThermoCoat®-4 HS

### ALKALI RESISTANT GLASS FIBER MESH FOR THE EXTERNAL THERMAL INSULATION SYSTEMS

#### DESCRIPTION

Sika ThermoCoat®-4 HS is a glass fiber mesh with alkali resistant coating, suitable for strengthening the rendering of external thermal insulation systems.

#### USES

- Designed for use as the glass fiber mesh for strengthening the rendering of the external thermal insulation composite system Sika ThermoCoat®
- Suitable as a glass fiber mesh for strengthening general use cementitious renders
- Complies with the requirements of ETAG 004 as glass fiber mesh for strengthening the rendering of external thermal insulation composite systems

#### CHARACTERISTICS / ADVANTAGES

- Easy embedding in the base coat
- Alkali resistance due to surface treatment
- Long term resistance against movements due to temperature change or shrinkage
- Uniform stress distribution on the entire surface of render, in order to avoid concentration of stresses and cracking

#### APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to ETAG 004:2013 - External Thermal Insulation Composite System (ETICS) with rendering

#### PRODUCT INFORMATION

<b>Construction</b>	Fiber orientation	0° / 90°
	Aperture size	4,5 x 4,5 mm (DIN EN 12127)
	Coating	SBR-Latex
<b>Packaging</b>	Roll length: 50m Roll width: 110cm	
<b>Appearance / Colour</b>	Mesh, yellow with red Sika logo and black overlapping threads 10 cm from edges	
<b>Shelf life</b>	Unlimited if stored properly in undamaged and unopened, original sealed containers.	
<b>Storage conditions</b>	Store at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.	
<b>Area Density</b>	Coating weight	26g/m <sup>2</sup>
	Finished weight	160g/m <sup>2</sup>

## TECHNICAL INFORMATION

Tensile Resistance	Acc. to DIN EN 13934-1	<b>Original</b>	<b>After ageing</b>
	<b>Warp (longitudinal)</b>	2.000 N / 5cm	1.000 N / 5cm
	<b>Weft (transverse)</b>	2.200 N / 5cm	1.100 N / 5cm
Elongation at Break		<b>Original</b>	
	<b>Warp (longitudinal)</b>	3,7%	
	<b>Weft (transverse)</b>	3,5%	

## SYSTEMS

System Structure	Sika ThermoCoat®-4 HS forms part of ETICS system Sika ThermoCoat® which comprises of the following products:	
	<b>Sika ThermoCoat®-1/3 HS</b>	Cementitious mortar (acc. to EN 998-1) for bonding and rendering thermal insulation boards
	<b>Sika ThermoCoat®-2 HS</b>	Expanded polystyrene boards (EPS) with flame retardant, suitable for ETICS (acc. to EN 13163)
	<b>Sika ThermoCoat®-4 HS</b>	Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards
	<b>Sika ThermoCoat®-5 HS Primer</b>	Water dispersed primer for pastelike renders
	<b>Sika ThermoCoat®-5 HS / -5 HS Silic</b>	Acrylic / silicone based, paste-like finishing coating (acc. to EN 15824)
	<b>Sika ThermoCoat®-8 HS</b>	Plastic expandable fixation anchor for external thermal insulation composite systems (acc. to ETAG 014)

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

Apply a uniform layer of using a notched trowel. Place Sika ThermoCoat®-4 HS onto the surface of the freshly applied product, unrolling it from top to bottom. Furthermore, apply pressure on Sika ThermoCoat®-4 HS using a straight spatoula to complete embedding. Furthermore, an additional smoothing layer of Sika ThermoCoat®-1/3 HS or Sika ThermoCoat® Easy is required, so that Sika ThermoCoat®-4 HS is fully embedded. In order to avoid cracks between consecutive rolls of Sika ThermoCoat®-4 HS, ensure an overlapping of  $\geq 10\text{cm}$ .

Apply a double layer of Sika ThermoCoat®-4 HS on highly stressed areas such as wall base or connection of the system to the roof.

Strengthen window corners by using additional pieces of Sika ThermoCoat®-4 HS (about  $30^{\circ}40\text{cm}$  in  $\pm 45^{\circ}$  angle) in order to avoid cracking.

### IMPORTANT CONSIDERATIONS

When applying Sika ThermoCoat®-4 HS:

- Do not unroll from the bottom up
- Ensure full embedding for smooth final rendering
- Ensure an overlapping of at least 10cm
- Embed it in such a way that Sika ThermoCoat®-4 HS

would be in the middle of the rendering layer

### 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

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH reg-

ulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1% (w/w).

## 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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