PRODUCT DATA SHEET

Sika ThermoCoat®-2 HS

EXPANDED POLYSTYRENE BOARDS (EPS) WITH FLAME RETARDANT OF HIGH THERMAL INSULATION PROPERTIES, SUITABLE FOR ETICS

DESCRIPTION

Sika ThermoCoat®-2 HS are boards of expanded polystyrene of high thermal insulating properties, which remain unaffected through time.

USES

- Designed for use as the thermal insulation board of the external thermal insulation composite system Sika ThermoCoat®.
- Suitable for internal thermal insulation systems.
- Complies with the requirements of EN 13163, as factory made expanded polystyrene (EPS), thermal insulation product for buildings.

CHARACTERISTICS / ADVANTAGES

- Homogeneity of the physical and mechanical characteristics of the product and therefore isotropy
- Stability against tension, distortion, break, degradation and ageing.
- 100% recyclable

APPROVALS / CERTIFICATES

- CE-marking and Declaration of Performance to EN 13163 - Thermal insulation product for buildings - Factory made expanded polystyrene (EPS) product.
- CE-marking and Declaration of Performance to ETAG 004 - External Thermal Insulation Composite System (ETICS) with rendering.
- AVCP: System 1 or 1+, according to EN 13172:2012

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Composition</th>
<th>Polystyrene</th>
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</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>Boards wrapped in packages with polyethylene sheet. The thickness of the boards determines the total application area of each package.</td>
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<tr>
<td>Colour</td>
<td>White or grey</td>
</tr>
<tr>
<td>Shelf life</td>
<td>Unlimited, if storage conditions are met.</td>
</tr>
<tr>
<td>Storage conditions</td>
<td>Store properly at dry conditions, protected from direct sunlight and frost, at maximum temperature +35°C.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1000 mm x 600 mm</td>
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<tr>
<td></td>
<td>Thickness tolerance (T) ± 1 (EN 823)</td>
</tr>
<tr>
<td></td>
<td>Length tolerance (L) ± 2 (EN 822)</td>
</tr>
<tr>
<td></td>
<td>Width tolerance (W) ± 2 (EN 822)</td>
</tr>
<tr>
<td></td>
<td>Squareness tolerance (S) ± 2 (EN 825)</td>
</tr>
<tr>
<td></td>
<td>Flatness tolerance (P) ± 5 (EN 824)</td>
</tr>
</tbody>
</table>
## TECHNICAL INFORMATION

### Compressive Strength

| Sika ThermoCoat®-2 HS White / Grafit | ≥ 60 kPa  
| Sika ThermoCoat®-2 HS White / Grafit 80 | ≥ 80 kPa  
| Sika ThermoCoat®-2 HS White / Grafit 100 | ≥ 100 kPa  
| Sika ThermoCoat®-2 HS White / Grafit 150 | ≥ 150 kPa  
| Sika ThermoCoat®-2 HS White / Grafit 200 | ≥ 200 kPa  

At 10% deformation [CS(10)], according to EN 826

### Dimensional Stability

| DS(N) | ≤ 2%  

Under laboratory conditions (23°C / 50% R.H.), according to EN 1603

### Reaction to Fire

| Class E | (EN 13501-1)  

### Thermal Conductivity

| Sika ThermoCoat®-2 HS White 60 | 0.037  
| Sika ThermoCoat®-2 HS Grafit 60 | 0.032  
| Sika ThermoCoat®-2 HS White 80 | 0.036  
| Sika ThermoCoat®-2 HS Grafit 80 | 0.031  
| Sika ThermoCoat®-2 HS White 100 | 0.034  
| Sika ThermoCoat®-2 HS Grafit 100 | 0.030  
| Sika ThermoCoat®-2 HS White 150 | 0.034  
| Sika ThermoCoat®-2 HS Grafit 150 | 0.030  
| Sika ThermoCoat®-2 HS White 200 | 0.033  
| Sika ThermoCoat®-2 HS Grafit 200 | 0.030  

ρ_d [W/mK], according to EN 12667

### Diffusion Resistance to Water Vapour

| Sika ThermoCoat®-2 HS White / Grafit 60 | 20 - 40  
| Sika ThermoCoat®-2 HS White / Grafit 80 | 20 - 40  
| Sika ThermoCoat®-2 HS White / Grafit 100 | 30 - 70  
| Sika ThermoCoat®-2 HS White / Grafit 150 | 30 - 70  
| Sika ThermoCoat®-2 HS White 200 | 40 - 100  
| Sika ThermoCoat®-2 HS Grafit 200 | 30 - 70  

μ factor, according to EN 12086
SYSTEMS

System Structure

Sika ThermoCoat®-2 HS forms part of Sika’s ETICS system Sika Thermo-Coat® which comprises of the following products:

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sika ThermoCoat®-1/3 HS</td>
<td>Cementitious mortar (acc. to EN 998-1) for bonding and rendering thermal insulation boards</td>
</tr>
<tr>
<td>Sika ThermoCoat®-2 HS</td>
<td>Expanded polystyrene boards (EPS) suitable for ETICS (acc. to EN 13163)</td>
</tr>
<tr>
<td>Sika ThermoCoat®-4 HS</td>
<td>Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards</td>
</tr>
<tr>
<td>Sika ThermoCoat®-5 HS Primer</td>
<td>Water dispersed primer for pastelike renders</td>
</tr>
<tr>
<td>Sika ThermoCoat®-5 HS / -5 HS Silic</td>
<td>Acrylic / silicone based, paste-like finishing coating (acc. to EN 15824)</td>
</tr>
<tr>
<td>Sika ThermoCoat®-8 HS</td>
<td>Plastic expandable fixation anchor for external thermal insulation composite systems (acc. to ETAG 014)</td>
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</tbody>
</table>

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Apply always Sika ThermoCoat®-2 HS from bottom to the top. Prior to this operation, the starting profile, part of Sika ThermoCoat® Accessories range, has to be positioned. Boards must be immediately applied after the application of Sika ThermoCoat®-1/3 HS, Sika ThermoCoat® Easy or Sika ThermoCoat®-100 Pro. Application should be done crosswise (brick construction). After Sika ThermoCoat®-2 HS bonding, press them firmly onto the substrate. It is recommended to control frequently the eveness of the substrate. The boards should be fixed according to the specification, using Sika ThermoCoat®-8 HS fixation anchors.

IMPORTANT CONSIDERATIONS

• Do not use wet or moist panels
• In all cases, the exact fixing spots and their number, must be defined according to the specification

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.

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.
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 regulation 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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