BUILDING TRUST

PRODUCT DATA SHEET

Sika ThermoCoat®-2 HS

Expanded polystyrene boards (EPS) with flame retardant of high thermal insulation properties, suitable for ETICS

CE

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 as Thermal insulation product for buildings - Factory made expanded polystyrene (EPS) product according to EN 13163:2012+A2:2016, based on certificate of constancy of performance of the construction product issued by notified product certification body.
- CE-marking and Declaration of Performance to EAD 040083-00-0404 - External Thermal Insulation Composite System (ETICS) with rendering, as part of Sika ThermoCoat® System.
- AVCP: System 1 or 1+, according to EN 13172:2012

PRODUCT INFORMATION

Composition	Polystyrene
Packaging	Boards wrapped in packages with polyethylene sheet. The thickness of the boards determines the total application area of each package.
Shelf life	Unlimited, if storage conditions are met.
Storage conditions	Store properly at dry conditions, protected from direct sunlight and frost, at temperatures up to +35°C.
Appearance and colour	white or grey colour

Dimensions	1000 mm x 600 mm		
	Thickness tolerance (T)	± 1	(EN 823)
	Length tolerance (L)	± 2	(EN 822)
	Width tolerance (W)	± 2	(EN 822)
	Squareness tolerance (S)	± 2	(EN 824)
	Flatness tolerance (P)	± 5	(EN 825)
Thickness	50 - 200 mm		

TECHNICAL INFORMATION

Compressive strength	Sika ThermoCoat®-2 HS White / Grafit 60	≥ 60 kPa
	Sika ThermoCoat®-2 HS White / Grafit 80 / Grafit Plus 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	
Thermal conductivity	Sika ThermoCoat®-2 HS White 60	0.037
	Sika ThermoCoat®-2 HS Grafit 60	0.031
	Sika ThermoCoat®-2 HS White 80	0.036
	Sika ThermoCoat®-2 HS Grafit 80	0.031
	Sika ThermoCoat®-2 HS Grafit Plus 80	0.030
	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
	λ_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 / Garfit Plus 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	
Reaction to fire	Class E	(EN 13501-1)

SYSTEM INFORMATION

System structure

Sika ThermoCoat®-2 HS forms part of Sika's ETICS system **Sika ThermoCoat®** which comprises of the following products:

Sika ThermoCoat®-1/3 HS	Cementitious mortar (acc. to EN 998-1) for bonding and rendering thermal insulation boards
Sika ThermoCoat®-2 HS	Expanded polystyrene boards (EPS) suitable for ETICS (acc. to EN 13163)
Sika ThermoCoat®-4 HS	Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards
Sika ThermoCoat®-5 HS Primer	Water dispersed primer for pastelike renders
Sika ThermoCoat®-5 HS / 5 HS Fire	Acrylic, paste-like finishing coatings (acc. to EN 15824)
Sika ThermoCoat®-5 HS Silic / 5 HS Fire Silic	Silicone based, paste-like finishing coatings (acc. to EN 15824)
Sika ThermoCoat®-8 HS / 8 HS CL	Plastic expandable fixation anchor with plastic / steel nail for external thermal insulation composite systems
Sika ThermoCoat®-8 HS FR	Fire resistant fixation anchor made of hot-dip galvanized or stainless steel

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.

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

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 the 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).

APPLICATION INSTRUCTIONS

APPLICATION

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/ 8 HS CL fixation anchors

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.

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, sub-

strates 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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