

PRODUCT DATA SHEET

Sikatherm® Foam-745 SPF

(formerly MSeal 745SPF)

2-component polyurethane insulation foam with closed cells for hot spray application

DESCRIPTION

Sikatherm® Foam-745 SPF is 2-component polyurethane, closed cell, rigid foam for spray application, with high insulation properties suitable for thermal insulation of roofs. Suitable for use in hot and tropical climatic conditions.

USES

- Thermal insulation layer in building envelope; mainly on roofs, walls or cold stores where a seamless thermal insulation is required
- Thermal insulation in industrial plants, storage tanks, containers, cargo ships, agricultural storage and all types of buildings
- Insulation of pipes, duct systems, etc.
- Suitable for deferent substrates like metal, plywood and concrete
- Uniform & continuous intermediate layer on irregular substrates before overcoating with waterproofing systems

FEATURES

- Maximum thermal insulation properties– Maximum energy saving due to optimal insulation with no joints or thermal bridges
- Fast reacting – Rapid installation. Does not run when applied on vertical surfaces
- Seamless – No risk of leaky seams and laps
- Spray applied - Fast installation on large surfaces, easy application on complex details
- Fully bonded – Eliminates water collection behind the foam and offers high wind uplift resistance
- Quick Refurbishment applications- Usually no break-up of the old roof surface

PRODUCT INFORMATION

Composition	Component A	Polyol
	Component B	Isocyanate
Packaging	Component A (Isocyanate) : Component B (Resin) :	200 L drum 200 L drum
Shelf life	Component A (Isocyanate) : Component B (Resin) :	6 months from date of production 6 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged packaging in dry conditions. Component A shall be stored at a temperatures between +10 °C and +30 °C. Component B shall be stored at a temperatures between +10 °C and +25 °C. Higher storage temperatures may reduce the shelf life of the product. Component A is highly hygroscopic. Avoid exposing component A to atmospheric humidity. Moisture ingress on component A may adversely affect the reaction behaviour.	

Density	Component A (Isocyanate)	~1.23 kg/L at 20 °C (PPS-QC-002)
	Component B (Resin)	~1.16 kg/L at 25 °C (PPS-QC-002)
	Core density	~38 to 45 kg/m ³ (ASTM D1622)
Viscosity	Component A at 25 °C	~200±40 mPas s (PPS-QC-003)
	Component B at 25 °C	~300±50 mPas s (PPS-QC-003)

TECHNICAL INFORMATION

Compressive strength	~250 kPa	(ASTM D1621)
Reaction to fire	B3	(DIN 4102)

APPLICATION INFORMATION

Mixing ratio	Comp. A : Comp. B = 1 : 1 by volume	
Ambient air temperature	Minimum	+10 °C
	Maximum	+50 °C
Dew point	Substrate temperature must be +3 °C above dew point.	
Substrate temperature	Minimum	+10 °C
	Maximum	+50 °C
Tack free time	~13±2 seconds at 22°C, 4000 RPM hand mixing method	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Application is by 2-part hot spray equipment only. Use of protective health and safety equipment is mandatory
- Do not apply Sikatherm® Foam-745 SPF on substrates with rising moisture
- Product shall be used in conjunction with a safe system of work
- Sikatherm® Foam-745 SPF is not UV resistant and changes colour under UV exposure. Apply a suitable Sikalastic® top coat as early as possible. Consult Sika local Technical Department for more information
- Do not apply Sikatherm® Foam-745 SPF in windy conditions above 20 km/hour

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

Usually applied by Specialist Applicator. Please contact Sika® Technical Services for specific application assistance.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001, 45001 – SGS
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Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals
for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001, ISO
14001 and ISO 45001.



Product Data Sheet

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