

PRODUCT DATA SHEET

Sarnatherm® EPS tapered

SARNATHERM EPS IS A RIGID EXPANDED POLYSTYRENE INSULATION BOARD

PRODUCT DESCRIPTION

Sarnatherm® EPS tapered is a rigid expanded polystyrene insulation board. Sarnatherm® EPS tapered is installed directly on the substrate (depending on local code or FM requirements), over an approved thermal barrier, or directly on the existing roof surface prior to the application of the Sarnafil® membrane or Sikaplan® membrane.

USES

Wherever insulation is required within a conventional roof assembly.

Areas of Application

- New Roofs
- Recover Roofs
- Mechanically Attached Systems
- Adhered Systems

CHARACTERISTICS / ADVANTAGES

- Manufactured with no CFCs or HCFCs
- Virtually no GWP (global warming potential)
- Zero ODP (ozone depletion potential)
- Recognized as resistant to mold growth

APPROVALS / STANDARDS

- ASTM C 1289 Type II, Class 2, Grade 2 (20 psi)
- UL 1256, 790, 263
- FM 4450, 4470
- Miami-Dade County
- State of Florida

PRODUCT INFORMATION

Chemical Base	Polystyrene Foam Core		
Packaging	<ul style="list-style-type: none"> ▪ 4 ft x 4 ft (1.2 m x 1.2 m) ▪ 4 ft x 8 ft (1.2 m x 2.4 m) ▪ Various Thicknesses 		
Shelf Life	N/A		
Storage Conditions	<p>Factory-applied packaging is intended only for protection during transit. When stored outdoors or on the job site, the insulation should be stacked on pallets at least 4" (102 mm) above ground level and completely covered with a weatherproof covering such as a light colored tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation. Refer to PIMA Technical Bulletin 109: <i>Storage and Handling Recommendations for Polyiso Roof Insulation</i>.</p>		
Thickness	Thickness	R-Value at 75°F	C-Value at 75°F
	1.0" (25 mm)	4.2	0.238
	1.5" (38 mm)	6.4	0.156
	2.0" (51 mm)	8.5	0.118
	2.5" (64 mm)	10.6	0.094
	3.0" (76 mm)	12.8	0.087
	4.0" (102 mm)	17.0	0.059
	4.5" (112 mm)	19.2	0.052
	Thickness	R-Value at 40°F	C-Value at 40°F
	1.0" (25 mm)	4.6	0.217
	1.5" (38 mm)	6.9	0.145
	2.0" (51 mm)	9.2	0.109
	2.5" (64 mm)	11.5	0.087
	3.0" (76 mm)	13.8	0.076
	4.0" (102 mm)	18.4	0.048
	4.5" (112 mm)	20.7	0.048

TECHNICAL INFORMATION

Compressive Strength	20 psi (138 kPa)	(ASTM D-1621)
Flexural Strength	35 lbs/in (241 kPa)	(ASTM C-203)
Dimensional Stability	2 %	(ASTM D-2126)
Reaction to Fire	Flame Spread: 15* Smoke Development: 150 – 300* Oxygen Index: 24.0	(ASTM E-80) (ASTM D-2863)
<small>* Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤ 75 and smoke development ≤ 450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450 or UL 1256.</small>		
Permeability to Water Vapor	< 3.5 perm	(ASTM E-96)
Water Absorption	< 3 %	(ASTM C-272)

APPLICATION INSTRUCTIONS

Sarnatherm® EPS tapered is installed by a Sarnafil® Authorized Applicator. Sarnatherm® EPS tapered may be installed either by mechanical-attachment to the roof deck with Sarnafasteners and Sarnaplates, by full

attachment with low rise sprayed urethane foam or partial attachment with foam adhesive (options depend on deck type and Sarnafil system to be installed). Contact Sika Corporation – Roofing Technical Department regarding alternative methods of attachment.

MAINTENANCE

Standard maintenance of Sarnafil and Sikaplan systems should include inspections of flashings, drains, and termination sealants at least twice a year and after each storm.

AVAILABILITY/WARRANTY

Availability

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

Warranty

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Product Data Sheet
Sarnatherm® EPS tapered
September 2019, Version 03.01
020935032000005011

SarnathermEPStapered-en-US-(09-2019)-3-1.pdf

