



# PRODUCT DATA SHEET

## SARNATHERM<sup>®</sup> EPS TAPERED INSULATION

Sarnatherm EPS Tapered Insulation is a rigid expanded polystyrene insulation board. Sarnatherm EPS 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<sup>®</sup> membrane or Sikaplan<sup>®</sup> membrane.

### PRODUCT INFORMATION

#### USES

Wherever insulation is required within a conventional roof assembly.

#### AREAS OF APPLICATION

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

#### FEATURES / BENEFITS

- Manufactured with no CFCs or HCFCs
- Virtually no GWP (global warming potential)
- Zero ODP (ozone depletion potential)
- Recognized as resistant to mold growth
- Compatible with Sarnafil and Sikaplan membranes
- Improved coverage rates in adhered systems

#### TESTS

#### STANDARDS / APPROVALS

- 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 DATA

#### FORM

#### COMPOSITION

Polystyrene Foam Core

#### PACKAGING

- 4 ft x 4 ft (1.2m x 1.2m)
- 4 ft x 8 ft (1.2m x 2.4m)
- Various Thicknesses

**STORAGE****STORAGE CONDITIONS**

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 in (102 mm) above ground level and completely covered with a weatherproof covering such as a tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation. Refer to PIMA Technical Bulletin 109: *Storage and Handling Recommendations for Polyiso Roof Insulation*.

**TECHNICAL DATA****TYPICAL PHYSICAL PROPERTIES\***

Properties	ASTM Test Method	Results
Compressive Strength, psi (kPa)	D 1621	20 (138)
Dimensional Stability, %	D 2126	2
Water Absorption, %	C 272	< 3
Permeability, perm	E 96	< 3.5
Flexural Strength, lbs/in	C 203	35
Flame Spread	E 84 (10 min.)	15**
Smoke Development	E 84 (10 min.)	150 - 300**
Oxygen Index	D 2863	24.0

\*Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

\*\*Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of  $\leq 75$  and smoke development  $\leq 450$  meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450 or UL 1256.

**THERMAL DATA**

Thickness		75° F		40° F	
in	mm	R-Value	C-Value	R-Value	C-Value
1.0	25	4.2	0.238	4.6	0.217
1.5	38	6.4	0.156	6.9	0.145
2.0	51	8.5	0.118	9.2	0.109
2.5	64	10.6	0.094	11.5	0.087
3.0	76	12.8	0.087	13.8	0.076
4.0	102	17.0	0.059	18.4	0.048
4.5	112	19.2	0.052	20.7	0.048

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## SYSTEM INFORMATION

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**INSTALLATION** Sarnatherm EPS is installed by a Sarnafil Authorized Applicator. Sarnatherm EPS 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.

**AVAILABILITY** From Sika Corporation – Roofing Authorized Applications for use within Sarnafil or Sikaplan systems.

**MAINTENANCE** Standard maintenance of Sarnafil or Sikaplan systems should include regular inspection of flashings, drains, and termination sealants at least twice a year and after each storm.

**WARRANTY** As a Sika supplied product, Sarnatherm EPS is covered under Sika Corporation warranties.

**LEGAL NOTES**

All information provided by Sika Corporation (“Sika”) concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika’s current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika’s instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika’s control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at [usa.sarnafil.sika.com](http://usa.sarnafil.sika.com) or by calling 800-451-2504.

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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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer’s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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