

PRODUCT DATA SHEET

SARNATHERM[®] - 20 psi

Sarnatherm is a rigid closed cell polyisocyanurate insulation board with fiber reinforced felt facers. Sarnatherm is suitable for use in new construction and re-roofing with Sarnafil[®] or Sikaplan[®] membranes.

PRODUCT INFORMATION

USES

Wherever insulation is required within a conventional roof assembly to achieve specified thermal resistance.

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)
- Compatible with Sarnafil and Sikaplan membranes

TESTS

CODES / APPROVALS

- ASTM C 1289 Type II, Class 1, Grade 2 (20 psi)
- UL 1256, 790, 263
- FM 4450, 4470
- Miami-Dade County
- State of Florida

PRODUCT DATA

COMPOSITION

Polyisocyanurate foam core with fiber reinforced felt facers

COLOR

Off-white core with black facer

PACKAGING

- 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

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 209	< 1.5
Permeability, perm, (ng/(Pa•s•m ²))	E 96	< 1.5 (85.5)
Flame Spread	E 84 (10 min.)	25-60**
Smoke Development	E 84 (10 min.)	50-170**
Service Temperature, °F (°C)	--	-100 to 250 (-73 to 121)

*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 ≤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.

THERMAL DATA

LTTR Value*	Thickness		Flute Spanability	
	in	mm	in	mm
5.7	1.0	25	2 - 5/8	66.68
8.6	1.5	38	4 - 3/8	111.13
10.3	1.8	46	4 - 3/8	111.13
11.4	2.0	51	4 - 3/8	111.13
14.4	2.5	64	4 - 3/8	111.13
15.0	2.6	66	4 - 3/8	111.13
17.4	3.0**	76	4 - 3/8	111.13
20.5	3.5**	89	4 - 3/8	111.13
23.6	4.0**	102	4 - 3/8	111.13

*LTTR (long term thermal resistance) values are based on ASTM C 1289. Test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program.

**Use multiple layers when the total desired or specified R-value requires an insulation thickness greater than 2.7 in (68.58 mm).

SYSTEM INFORMATION

INSTALLATION	Sarnatherm is installed by a Sika Authorized Applicator. Sarnatherm may be installed by mechanical attachment to the roof deck with Sarnafasteners and Sarnaplates, by attachment with Sarnacol board adhesive, or by hot asphalt depending on project requirements and specifications. Roof insulation which has become wet or damaged should be removed and replaced with solid, dry insulation. 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 is covered under Sika Corporation warranties.

LEGAL NOTES	<p>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 or by calling 800-451-2504.</p> <p>Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product’s most current Product Data Sheet, product label and Safety Data Sheet which are available online at usa.sarnafil.sika.com or by calling Sika’s Technical Service Department at 800-451-2504. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.</p> <p>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.</p> <p>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.</p>
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