

PRODUCT DATA SHEET

Sarnatherm® XPS

SARNATHERM XPS IS A RIGID EXTRUDED POLYSTYRENE INSULATION BOARD

PRODUCT DESCRIPTION

Sarnatherm® XPS is a rigid extruded polystyrene insulation board that can be used in either a Sika roofing or waterproofing application.

USES

Wherever insulation is required within a conventional roof assembly or waterproofing application.

Areas of Application

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

CHARACTERISTICS / ADVANTAGES

- Low water absorption
- Available in various sizes

APPROVALS / STANDARDS

- ASTM C 578, Type VI, VII, V
- CAN/ULC S701, Type 4

PRODUCT INFORMATION

Chemical Base	Polystyrene foam core with a smooth skin surface on the face and back surfaces		
Packaging	<ul style="list-style-type: none"> ▪ Various Thicknesses ▪ Sarnatherm per bundle depends on thickness 		
Shelf Life	N/A		
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" (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: <i>Storage and Handling Recommendations for Polyiso Roof Insulation</i> .		
Thickness	Thickness	R-Value	C-Value
	1.0" (25 mm)	5.0	0.200
	1.5" (38 mm)	7.5	0.133
	2.0" (51 mm)	10.0	0.100
	2.5" (64 mm)	12.5	0.080
	3.0" (76 mm)	15.0	0.067
	4.0" (102 mm)	20.0	0.050
Not all available thicknesses are listed.			

TECHNICAL INFORMATION

Compressive Strength	400	600	1000	(ASTM D-1621)
	40 psi (275 kPa)	60 psi (415 kPa)	100 psi (690 kPa)	
*Minimum values at yield or 5 % whichever occurs first.				
Flexural Strength	400	600	1000	(ASTM C-203)
	60 psi (480 kPa)	75 psi (585 kPa)	100 psi (690 kPa)	
*Minimum values				
Dimensional Stability	Coefficient of Linear Thermal Expansion in/(in·°F) (mm/(m·°C))			(ASTM D-696)
	400	600	1000	
	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵	
	(6.3 x 10 ⁻²)	(6.3 x 10 ⁻²)	(6.3 x 10 ⁻²)	
Reaction to Fire	Flame Spread			(ASTM E-84)
	400	600	1000	
	5	5	5	
	Smoke Developed			(ASTM E-84)
	400	600	1000	
	165	165	165	
*These values are not intended to reflect hazards presented by this or any other material under actual fire conditions.				
Permeability to Water Vapor	400	600	1000	(ASTM E-96)
	0.8 perms (35 ng/(Pa·s·m ²))*	0.8 perms (35 ng/(Pa·s·m ²))*	0.8 perms (35 ng/(Pa·s·m ²))*	
*Water vapor permeance varies with product type and thickness. Values are based on the desiccant method and they apply to insulation 1" (25 mm) or greater in thickness.				

Water Absorption	400	600	1000	(ASTM C-272)
	0.1 %*	0.1 %*	0.1 %*	
*% by volume, max				
Service Temperature	Maximum Use Temperature			
	400	600	1000	
	165°F (74°C)	165°F (74°C)	165°F (74°C)	

APPLICATION INSTRUCTIONS

Sarnatherm® XPS is installed either under or over the Sika roofing/waterproofing membrane depending on the system design. Overburden is utilized to hold the insulation in place in a waterproofing application. Polystyrene should not come in contact with PVC. Always place a separation layer such as Sarnafelt NWP between the Sarnatherm® XPS and the membrane in both roofing and waterproofing applications. During installation in hot, sunny weather, protect the insulation with a white covering to prevent excessive heat build-up and potential warping.

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.

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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