SARNATHERM EPS IS A RIGID EXPANDED POLYSTYRENE INSULATION BOARD

**PRODUCT DESCRIPTION**

Sarnatherm® EPS 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® membrane or Sikaplan® membrane.

**USES**

Wherever insulation is required within a conventional roof assembly.

**Areas of Application**

- New Roofs
- Recover Roofs
- Mechanically Fastened 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
- 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
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: Storage and Handling Recommendations for Polyiso Roof Insulation.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>R-Value at 75°F</th>
<th>C-Value at 75°F</th>
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<tbody>
<tr>
<td>1.0&quot; (2.5 mm)</td>
<td>4.2</td>
<td>0.238</td>
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<tr>
<td>1.5&quot; (38 mm)</td>
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<td>0.156</td>
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<tr>
<td>2.0&quot; (51 mm)</td>
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<tr>
<td>2.5&quot; (64 mm)</td>
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<tr>
<td>3.0&quot; (76 mm)</td>
<td>12.8</td>
<td>0.087</td>
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<tr>
<td>4.0&quot; (102 mm)</td>
<td>17.0</td>
<td>0.059</td>
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<tr>
<td>4.5&quot; (112 mm)</td>
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<table>
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<tr>
<td>1.5&quot; (38 mm)</td>
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<td>2.0&quot; (51 mm)</td>
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<tr>
<td>2.5&quot; (64 mm)</td>
<td>11.5</td>
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<tr>
<td>3.0&quot; (76 mm)</td>
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<tr>
<td>4.0&quot; (102 mm)</td>
<td>18.4</td>
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<tr>
<td>4.5&quot; (112 mm)</td>
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</tr>
</tbody>
</table>

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-84) (ASTM D-2863)

Permeability to Water Vapor
<3.5 perm (ASTM E-96)

Water Absorption
<3 % (ASTM C-272)

APPLICATION INSTRUCTIONS

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.
MAINTENANCE

Standard maintenance of Sarnafil and Sikaplan systems should include inspections of flashings, drains and terminations 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.