Sarnafil® S 327-72 Feltback EnergySmart Roof Membrane is a PVC thermoplastic membrane produced with an integral polyester reinforcement for high strength, is highly reflective, guaranteed for thickness, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

USES
Sarnafil S 327 is used in mechanically attached applications with various fastening methods, over various substrates.

Areas of Application
- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES
- Highly reflective
- Excellent tear strength resistance
- Factory applied lacquer coated to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Guaranteed thickness
- Superior fire resistance

APPROVALS / STANDARDS
- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
- ENERGY STAR®
- California Title 24
- LEED / Green Globes
### PRODUCT INFORMATION

<table>
<thead>
<tr>
<th><strong>Chemical Base</strong></th>
<th>High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant and polyester scrim reinforcement with a unique lacquer coating on the top surface.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recycled Content</strong></td>
<td>9 % Pre-consumer, 1 % Post-consumer</td>
</tr>
<tr>
<td><strong>Reinforcing Material</strong></td>
<td>Polyester</td>
</tr>
</tbody>
</table>
| **Packaging** | **72 mil (1.8 mm) Membrane**  
Feltback: 10 ft x 80 ft (3 m x 24 m) roll, 419 lbs (190 kg) per roll, 8 rolls per pallet |
| **Appearance / Color** | • Top: White, Tan, and Reflective Gray  
• Bottom: Gray |
| **Shelf Life** | N/A |
| **Storage Conditions** | Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability. |

### TECHNICAL INFORMATION

| **Resistance to Static Puncture** | Pass  
33 lbf (15 kg) (ASTM D-5602)  
(ASM Type III D-4434 Spec. Requirement) |
| **Resistance to Dynamic Puncture** | Pass  
14.7 ft-lbf (20 J) (ASTM D-5635)  
(ASM Type III D-4434 Spec. Requirement) |
| **Tensile Strength** | 315 lbf (1401 N)  
200 lbf (890 N) (ASTM D-751)  
(ASM Type III D-4434 Spec. Requirement) |
| **Elongation at Break** | 29 & 30 % MD & CMD  
15 & 15 % MD & CMD (ASTM D-751)  
(ASM Type III D-4434 Spec. Requirement)  
1MD = Machine Direction, CMD = Cross Machine Direction. |
| **Linear Dimensional Change** | -0.13 %  
0.5 % (ASTM D-1204)  
(ASM Type III D-4434 Spec. Requirement) |
| **Tear Strength** | 48.5 lbf (216 N)  
45 lbf (200 N) (ASTM D-751)  
(ASM Type III D-4434 Spec. Requirement) |
| **Seam Strength** | Pass  
75 % of original (ASTM D-751)  
(ASM Type III D-4434 Spec. Requirement)  
2Failure occurs through membrane rupture not seam failure. |
| **Low Temperature Bend** | Pass  
Pass -40°F (-40°C) (ASTM D-2136)  
(ASM Type III D-4434 Spec. Requirement) |
| **Retention of Properties after Heat Aging** | Tensile Strength, % of original: Pass  
Elongation, % of original: Pass  
Tensile Strength, % of original: 90  
Elongation, % of original: 90 (ASTM D-3045)  
(ASM Type III D-751)  
(ASM Type III D-4434 Spec. Requirement) |
UV Exposure

<table>
<thead>
<tr>
<th>10,000 hours</th>
<th>5,000 hours</th>
</tr>
</thead>
</table>

- Cracking (7x magnification): None
- Discoloration (by observation): Negligible
- Crazing (7x magnification): None

Weight Change after Immersion in Water

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.8 %</td>
<td>± 3.0 %</td>
</tr>
<tr>
<td>(ASTM D-570)</td>
<td>(ASTM Type III D4434 Spec. Requirement)</td>
</tr>
</tbody>
</table>

Solar Reflectance

<table>
<thead>
<tr>
<th>EnergySmart Colors</th>
<th>Initial Solar Reflectance</th>
<th>3-Year Solar Reflectance</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnergySmart White</td>
<td>0.84</td>
<td>0.76</td>
</tr>
<tr>
<td>EnergySmart Tan</td>
<td>0.73</td>
<td>0.65</td>
</tr>
<tr>
<td>EnergySmart Reflective Gray</td>
<td>0.73</td>
<td>0.66</td>
</tr>
</tbody>
</table>

1 Solar Reflectance testing according to ASTM C1549.
2 Meets ENERGY STAR®, LEED, Green Globes, and California’s Title 24 criteria for Low and Steep Slope applications.

Thermal Emittance

<table>
<thead>
<tr>
<th>EnergySmart Colors</th>
<th>Initial Thermal Emittance</th>
<th>3-Year Thermal Emittance</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnergySmart White</td>
<td>0.86</td>
<td>0.85</td>
</tr>
<tr>
<td>EnergySmart Tan</td>
<td>0.85</td>
<td>0.86</td>
</tr>
<tr>
<td>EnergySmart Reflective Gray</td>
<td>0.89</td>
<td>0.88</td>
</tr>
</tbody>
</table>

1 Thermal Emittance testing according to ASTM C1371, Slide Method.
2 Meets ENERGY STAR®, LEED, Green Globes, and California’s Title 24 criteria for Low and Steep Slope applications.

Solar Reflectance Index

<table>
<thead>
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<th>EnergySmart Colors</th>
<th>Initial Solar Reflectance Index</th>
<th>3-Year Solar Reflectance Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnergySmart White</td>
<td>105</td>
<td>93</td>
</tr>
<tr>
<td>EnergySmart Tan</td>
<td>89</td>
<td>78</td>
</tr>
<tr>
<td>EnergySmart Reflective Gray</td>
<td>90</td>
<td>78</td>
</tr>
</tbody>
</table>

1 Meets ENERGY STAR®, LEED, Green Globes, and California’s Title 24 criteria for Low and Steep Slope applications.

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil S 327 is rolled out after proper preparation of the approved substrate and fastened to the roof deck with appropriate mechanically attached system with Sarnafasteners in accordance with Sika’s technical requirements. Sarnafil S 327 seams are heat-welded together by trained operators using hot-air welding equipment. Different mechanically attached systems require different application methods. Please consult Sika’s Specifications or Applicator Handbook for detailed installation procedures.

MAINTENANCE

Standard maintenance of Sarnafil 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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