PROPERTIES OF CURED FOAM

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Density</td>
<td>ASTM D 1622</td>
<td>2.2 lb/ft³</td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td>Cream</td>
</tr>
<tr>
<td>Aged Thermal Resistance at 1&quot;</td>
<td>ASTM C 518</td>
<td>R-7.1</td>
</tr>
<tr>
<td>at 2&quot; (Calculated)</td>
<td></td>
<td>R-14</td>
</tr>
<tr>
<td>at 3&quot; (Calculated)</td>
<td></td>
<td>R-21</td>
</tr>
<tr>
<td>at 3½&quot;</td>
<td></td>
<td>R-25</td>
</tr>
<tr>
<td>Air Permeance</td>
<td>ASTM E 2178</td>
<td>&lt; 0.02 L/s.m² at 1&quot;</td>
</tr>
<tr>
<td>Air Barrier Assembly at 1&quot;</td>
<td>ASTM E 2357</td>
<td>0.0106 L/s.m² at 75 Pa</td>
</tr>
<tr>
<td>Water Vapor Permeance</td>
<td>ASTM E 96</td>
<td>0.97 perm at 1.5&quot;</td>
</tr>
<tr>
<td>Water Resistive Barrier</td>
<td>ICC-ES AC71</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Dimensional Stability at 7 days (% Volume)</td>
<td>ASTM D 2126</td>
<td>8.9% at 158°F and 97% RH</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D 1621</td>
<td>40 lb/in²</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D 1623</td>
<td>41 lb/in²</td>
</tr>
<tr>
<td>Closed Cell Content (% Volume)</td>
<td>ASTM D 6226</td>
<td>98%</td>
</tr>
<tr>
<td>Fungus Testing</td>
<td>ASTM C 1338</td>
<td>No Growth</td>
</tr>
</tbody>
</table>

BURN CHARACTERISTICS

| Surface Burning at 4 inches: | ASTM E 84 | Class A |
| Flame Spread Index | | 25 |
| Smoke Development | | 300 |
| Commercial Fire Resistance | NFPA 285 | Assembly Passed* |
| Commercial Fire Resistance | ASTM E 119 | 1,2 & 3 Hour Ratings* |
| DC 315, No-Burn Plus ThB, F10E, Flame Seal | NFPA 286 | > 15 minutes |
| Wall & Ceiling Application Maximum Thickness | ACC377 | Walls- none Ceiling- none |
| Attic & Crawl Space Walls & Roof Uncoated Thickness | ACC377 Appendix X | Walls - 6" Roof - 8" |

*consult Icynene-Lapolla Engineering Department for details.

- Icynene ProSeal™ must be covered with ½" of gypsum board, or DC-315, No-Burn Plus ThB, Flame Seal or Fireshell F10E intumescent paint coating at approved thickness or approved thermal barrier.
- Icynene ProSeal™ is subject to all applicable National/State and County building codes regarding fire prevention. Requirements for Thermal Barrier and Ignition Barrier coverings must be met as per the applicable building code as required by the authority having jurisdiction.
- Icynene ProSeal™ per ACC377 Appendix X test reporting is approved for use in limited access attics and crawl spaces without an ignition barrier or an intumescent paint coating.

AIR BARRIER/ MECHANICAL VENTILATION

- Icynene ProSeal™ fills any shaped cavity, and adheres to most construction materials, creating assemblies with very low air permeance.
- Additional interior or exterior air infiltration protection is subject to applicable codes.
- All buildings insulated and air sealed with Icynene ProSeal™ must be designed to include adequate mechanical ventilation/outdoor air supply for optimum IAQ (Indoor Air Quality).
- For mechanical ventilation see ASHRAE Standard 62 – Ventilation for Acceptable Indoor Air Quality or any other acceptable good engineering practice.
WATER VAPOR PERMEANCE & ABSORPTION

- Icynene ProSeal™ is a Class II vapor retarder, at 1½” thickness, which reduces the amount of moisture that can diffuse through the insulation.
- Icynene ProSeal™ meets FEMA criteria for resisting water absorption.
- It is resistant to moisture allowing it to be used below the base flooding elevation in flood prone areas.

ENVIRONMENTAL AND HEALTH

- Icynene ProSeal™ is California Department of Public Health EHLB v1.1-2010 Emissions Specification Section 01350 compliant for offices and classrooms.

INSTALLATION

- Icynene ProSeal™ is installed by a network of Licensed Dealers, trained in its installation.
- Maximum thickness per pass is 4 inches for first pass only, then 2 inches maximum for additional passes. Wait until first layer cools before applying a second layer/lift over the initial layer/lift.
- This product should not be installed within (3”) of heat emitting devices, (or as specified by Code) where the temperature is in excess of 180°F, in accordance with applicable codes.
- It can be installed in hot, humid or freezing conditions. Minimum substrate temperature for application is 23°F (-5ºC).
- Surface preparation is generally not necessary.
- Within seconds, the foaming process is complete.

HANDLING AND SAFETY


AVAILABILITY

Contact Icynene Inc. at 800-758-7325 or visit our website at www.icynene.com.

WARRANTY

WHEN INSTALLED PROPERLY IN ACCORDANCE WITH INSTRUCTIONS, THE COMPANY WARRANTS THAT THE PROPERTIES OF THE PRODUCT MEET PRODUCT SPECIFICATIONS AS OUTLINED IN THIS TECHNICAL DATA SHEET. SAVE AND EXCEPT ANY EXCLUSIONS REFERENCED IN THE WARRANTY.

TECHNICAL

Icynene Licensed Dealers and Icynene Inc. provide support on both technical and regulatory issues. Architectural specifications in CSI 3-Part format and design details are available at our website at www.icynene.com.

REGULATORY

- ESR-3500 has been issued by the ICC-ES for Icynene ProSeal™.
- Icynene ProSeal™ has been tested as per the requirements of the International Code Council Evaluation Service’s AC377 Acceptance Criteria (April 2016).
- Meets ASTM C1029 Type II classification.
- For regulatory issues concerning Icynene ProSeal™ contact Icynene at 800-758-7325.

RELATED REFERENCES

All physical properties were determined through testing by accredited third party agencies. Icynene Inc. reserves the right to change specifications in its effort of continuous improvement. Please confirm that technical data literature is current.

PACKAGING AND STORAGE

- Packaging - 55 US gallon, closed top steel drums
- Component ‘A’ – 520 lb. per drum. Base Seal® MDI
- Component ‘B’ – 480 lb. per drum. Icynene ProSeal™ – Resin
- Icynene ProSeal™ (Component A and Component B) ideally should be stored between 60ºF (15°C) and 85ºF (30°C).
- Component A should be protected from freezing.
- Shelf life is 12 months.

Telefon: 905.363.4040
Toll Free: 800.758.7325
www.icynene.com
inquiry@icynene.com
Updated July 22 2019 - SL-340
Icynene spray foam insulation products have an excellent health and safety record spanning more than 425,000 projects over more than 25 years. Nonetheless, safe handling practices during and immediately following installation are required to eliminate the possibility of health effects from exposure to isocyanates. Asthma, other lung problems, and irritation of the nose and throat can result from inhalation of isocyanates. Direct contact with the skin and eyes can result in irritation. Different individuals will react differently to the same exposures; some will be more sensitive than others. Severe asthma attacks have been reported in some sensitized workers exposed repeatedly to isocyanates while not wearing proper protective equipment. Some reports indicate a reaction and sensitization can occur following a single, sustained occupational exposure to isocyanates without proper protective equipment above the OSHA permissible exposure limit. But sensitization might not occur immediately in some individuals. Consistent use of personal proper protective equipment to prevent exposure during spraying and within the 1 hour** period after spraying is completed is critical to eliminating the health hazard. Once sensitization has occurred, a worker might not be able work safely with spray foam insulation again.

Sprayers, sprayer helpers, and anyone else present during spraying or within 1 hour** after spraying is complete: You must ventilate at levels prescribed on this page and must wear proper Personal Protective Equipment (PPE) at all times during spray, including full-body-coverage, chemical-protective clothing and a NIOSH-certified respirator with fresh air supply. While spraying and for 1 hour** after spraying is completed, no one must be allowed within 50 feet of the sprayed foam without wearing this type of PPE at all times. Adequate active, negative pressure ventilation (exhaust fans) of the job site must be in place during spray and for 2 hours** after spray is complete to allow for re-occupancy.

For installations of low VOC products Icynene Classic Ultra, Icynene Classic Ultra Select, Icynene OC No-Mix, Icynene ProSeal, Icynene ProSeal LE and Icynene ProSeal HFO in the United States only, re-entry of the job site is permitted after 1 hour** and re-occupancy of the job site is permitted after 2 hours** (4 hours for Icynene OC No-Mix and Icynene Classic Ultra Select) provided that ventilation rates are followed as recommended on this page.

Independent studies and third party toxicologist verification indicates that when the prescribed ventilation rates and periods are followed, Icynene spray foam insulation is safely cured.
Icynene Inc. 6747 Campobello Road
Mississauga, Ontario L5N 2L7 Canada
Ph: 1.800.758.7325 • ICYNENE.COM
SL-519 • Updated July 18 2019

Low VOC

WARNING

STAY OUT OF PREMISES WHILE FOAM IS SPRAYED AND FOR 2 HOURS’ AFTER SPRAYING IS COMPLETE.

*For applications of low VOC Icynene Classic Ultra, Icynene ProSeal, Icynene ProSeal LE and Icynene ProSeal HFO only with ventilation as prescribed.

I have read and understand the information on this document. I understand that I must vacate the premises during spraying and for at least 2 hours* after spraying has been completed.

SIGNATURE:

DATE:

Email completed form to hsagreements@icynene.com or fax 1-888-340-2552.

ICYNENE LAPOLLA™

Health & Safety Homeowners

COMMITTED TO THE RESPONSIBLE USE OF SPRAY FOAM CHEMISTRY FOR OVER 25 YEARS.

Icynene spray foam insulation products have an excellent health and safety record spanning more than 425,000 projects over more than 25 years. Nonetheless, safe handling practices during and immediately following installation are required to eliminate the possibility of health effects from exposure to isocyanates. Asthma, other lung problems, and irritation of the nose and throat can result from inhalation of isocyanates. Direct contact with the skin and eyes can result in irritation. Different individuals will react differently to the same exposures; some will be more sensitive than others.

Everyone (other than Icynene-certified spray technicians) must vacate the job site, remaining completely out of the building or at least 50 feet away, while the spray is applied and for at least 2 hours* after spraying is completed to allow active ventilation of the job site and to ensure the foam chemicals are completely cured. No exceptions.

Independent studies and third party toxicologist verification indicates that when the prescribed ventilation rates and periods are followed, Icynene spray foam insulation is safely cured.

* For installations of low VOC products Icynene ProSeal and Icynene ProSeal LE in the United States only, re-occupancy of the job site is permitted after 2 hours provided that the rate of air exchange during spraying and for 2 hours thereafter equals or exceeds 40 Air Changes per Hour (ACH). For applications of low VOC Icynene Classic Ultra and ProSeal HFO in the United States only, re-occupancy is permitted after 2 hours provided rate of air exchange during and for 2 hours thereafter equals or exceeds 10 Air Changes per Hour. For applications of Icynene OC No-Mix and Classic Ultra Select in the United States only, re-occupancy is permitted after 4 hours provided rate of air exchange during and for 4 hours thereafter equals or exceeds 20 Air Change per Hour.

CLIENT ACKNOWLEDGEMENT

NAME:

BUILDING ADDRESS:

CITY:

STATE / PROVINCE:

ZIP / POSTAL CODE:

☐ I have read and understand the information on this document. I understand that I must vacate the premises during spraying and for at least 2 hours* after spraying has been completed.

SIGNATURE:

DATE: