SPRAYTITE® COMFORT Series
BUILDING ENVELOPE INSULATION
Intertek CCRR-1031

DESCRIPTION:
SPRAYTITE COMFORT is a two-component closed-cell spray polyurethane foam system utilizing an EPA-approved, zero ozone-depleting blowing agent having extremely low (less than 1) global warming potential (low-GWP). It is designed for use in residential construction and common commercial insulation applications. SPRAYTITE COMFORT is compatible with most common construction materials and can only be processed with BASF Elastospray® 8000A isocyanate.

The benefits of SPRAYTITE COMFORT include:
- Superior insulation
- Controls moisture infiltration
- Controls air infiltration
- FEMA Class II flood-damage resistant rated material

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>METHOD</th>
<th>SPRAYTITE COMFORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity @ 70°F</td>
<td>ASTM D 1638</td>
<td>1.21</td>
</tr>
<tr>
<td>Viscosity @ 70°F (cps)</td>
<td>Brookfield</td>
<td>1050-1350</td>
</tr>
<tr>
<td>Cured Foam:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density, core @2” lifts (pcf)</td>
<td>ASTM D 1622</td>
<td>2.2 – 2.4</td>
</tr>
<tr>
<td>Thermal Resistance (aged)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>k-factor (Btu in/ft² hr °F)</td>
<td>ASTM C 518</td>
<td>0.152 @ 1-in thick</td>
</tr>
<tr>
<td>R-value (ft² hr °F/Btu in)</td>
<td>Calculated</td>
<td>0.147 @ 4-in thick</td>
</tr>
<tr>
<td>Compressive Strength (psi)</td>
<td>ASTM D 1621</td>
<td>26 %/5%/6%</td>
</tr>
<tr>
<td>Water Vapor (Perm Inch)</td>
<td>ASTM E 96</td>
<td>1.09</td>
</tr>
<tr>
<td>Water Vapor Transmission – Permeance (perms)</td>
<td>ASTM E 96</td>
<td>1.09 @ 1.0” thickness</td>
</tr>
<tr>
<td>Water Absorption (vol %)</td>
<td>ASTM D 2842</td>
<td>&lt;0.30</td>
</tr>
</tbody>
</table>

Additional properties include:
- Non-fibrous
- Structural enhancement
- Speed of installation
- Controls air infiltration
- Superior insulation
- Acceptable to third party certification
- Compatible with most construction jobs
- Superior insulation
- Allows installation in limited space
- Can be installed over some existing materials

The coefficient of thermal expansion varies between $3 \times 10^{-6}$ and $4 \times 10^{-6} \text{ft/°F}$ for closed-cell SPF, while the higher values are reported for open-cell foams.

ADDITIONAL TESTING, APPROVALS & CERTIFICATIONS:
- ASTM E 84 (Class I at 4-in thickness) (3) (4)
- ASTM C 1029 – Type II Compliant
- AIR LEAKAGE
  - Spray Leakage
    - Property ASTM E 2178
    - SPRAYTITE COMFORT < 0.050 @ 1.0 inch

- Third Party Credential approvals - Intertek CCRR-1031
- Approved for Attics & Crawl Spaces Installations with and without prescriptive ignition barriers per ICC-ES AC377, Appendix A1.2.2 and Appendix X

Odor level of spray polyurethane foam is dependent on proper application using the recommended processing parameters and proper ventilation.

Please contact your local Sales or Technical Representative for specific questions regarding additional SPRAYTITE COMFORT properties, approvals, or certifications.
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BUILDING ENVELOPE INSULATION

GENERAL INFORMATION:

SPRAYTITE COMFORT is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

SPRAYTITE COMFORT has an estimated theoretical yield range of 4,700-5,100 board feet per set. Actual coverage can be in excess of or below the referenced estimated theoretical range based on factors affecting density including, however, not limited to: multiple lifts, substrate texture, substrate temperature, overspray loss, windy conditions, altitude, container residue, equipment characteristics & temperatures, applicator technique, etc. For help estimating yield for this and other spray foams, please consult Spray Polyurethane Foam Alliance’s SPF-121 SPF Estimating Reference Guide.

INSTALLATION CAUTIONS AND RECOMMENDATIONS:

SPRAYTITE COMFORT is designed for an application rate of ½ inch minimum to 2 inches maximum per pass. Proper cooling or dwell time is required between passes (minimum 10 minutes for every inch applied). Once installed material has cooled it is possible to add additional applications in order to increase the overall installed thickness of SPF. Thicker installations are allowed based on large scale testing. Please see CCRR-1031 for additional information. This application procedure is in compliance with the Spray Polyurethane Foam Alliance (SPFA).

SPRAYTITE COMFORT is NOT designed for use as an EXTERIOR roofing system. BASF offers a separate line of products for exterior roofing applications. Cold-storage structures such as coolers and freezers demand special design considerations with regard to thermal insulation and moisture-vapor drive. SPRAYTITE COMFORT should NOT be installed in these types of constructions, unless the structure was designed by a design professional for specific use as cold storage. For more information please contact your sales or technical representative.

SPRAYTITE COMFORT is designed for installation to most standard construction materials such as wood, wood-based products, plastics, metal and concrete. SPRAYTITE COMFORT has performed successfully when sprayed onto wood substrates down to 30°F using special cold weather application techniques. For heat sink-materials such as metal or concrete, SPRAYTITE COMFORT can be sprayed onto substrates down to 40°F, using a flash pass method. BASF recommends the use of mock ups or sample spray before starting the full-scale project. This will provide an opportunity to see how all materials are installed and evaluate their properties prior to proceeding. Please consult a BASF Representative for further information about applications using our liquid compounds.

Foam plastic materials installed in walls or ceilings may present a fire hazard unless protected by an approved, fire-resistant thermal barrier with a finish rating of not less than 15 minutes as required by building codes. Rim joists/header areas, in accordance with the IRC and IBC, may not require additional protection. Foam plastic must also be protected against ignition by code prescribed or properly tested materials in attics and crawl spaces. See relevant Building Codes and www.iccsafe.org for more information.

Important Material Preparation Note: Product should be stored at 50-80°F. Materials should be prepared for processing by being warmed to 70°F minimum at least 24 hours prior to installation and maintained at 70°F during the install process.

### EQUIPMENT SETTING GUIDELINES – SPRAYTITE COMFORT

<table>
<thead>
<tr>
<th>Climate</th>
<th>A side, B side, Hose Temp (Adjust in ± 5° increments)</th>
<th>Proportioner set pressure (Spraying pressure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colder</td>
<td>120°F – 140°F</td>
<td>1150 – 1450 psi (900 – 1200 psi)</td>
</tr>
<tr>
<td>Warmer</td>
<td>110°F – 125°F</td>
<td>1150 – 1450 psi (900 – 1200 psi)</td>
</tr>
</tbody>
</table>

BASF’s SPF systems are formulated to produce foam with physical properties representative of our published data sheets within the factory set tolerances of commercially available fixed ratio proportioner units.

In addition to reading and understanding the SDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Personnel should review related industry and best practice documents published by organizations such as Spray Polyurethane Foam Alliance (SPFA), OSHA, Spray Foam Coalition (SFC) and American Chemistry Council / Center for the Polyurethanes Industry (CPI).

As with all SPF systems improper application techniques should be avoided. Examples of improper application techniques include, but are not limited to excessive thickness of SPF, off-ratio material and spraying into or under rising SPF. Potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials.

LARGE MASSES of SPF should be removed to an outside safe area, cut into smaller pieces and allowed to cool before discarding into an appropriate trash receptacle.

SPF insulation is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to SPRAYTITE COMFORT or any polyurethane foam. The insulation must not be used in areas that have a maximum service temperature greater than 180°F(82°C).

SHELF LIFE AND STORAGE CONDITIONS:

SPRAYTITE COMFORT has a shelf life of approximately six (6) months from the date of manufacture when stored in original, unopened containers at 50-80°F. As with all industrial chemicals this material should be stored in a covered, secure location and never in direct sunlight. Storage temperatures above the recommended range will shorten shelf life. Storage temperatures above the recommended range may also result in elevated headspace pressure within packages.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY:

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers’ exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages.

While descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be sued without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of BASF’s terms and conditions of sale. Further the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the description, designs, data or information given or results obtained, all such being given and accepted at the reader’s risk.

"Warning" These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

Date: March 27, 2020

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