DESCRIPTION
JM Corbond® III closed-cell spray polyurethane foam (SPF) is a premium, two-component, medium-density, Class 1 rated, insulation system designed for commercial, residential and industrial applications. Its high yield, superior thermal and moisture performance, and exceptional sprayability and adhesion make it an ideal choice for high-performing energy efficient buildings.

RECOMMENDED USES
• Walls (exterior and interior)
• Floors
• Ceilings

PERFORMANCE ADVANTAGES
• Improves Energy Efficiency
• Provides an Effective Air Barrier
• Increases Racking Strength
• Exceptional Adhesion
• Minimizes Sound Transmission

INSTALLER ADVANTAGES
• Superior Sprayability
• High Yield
• Wide Processing Window
• Low Application Odor
• Excellent Adhesion

APPROVALS / COMPLIANCES
• 2015, 2012, 2009 International Residential Code (IRC)
• IAPMO ES #0146
• Appendix X approval for application in unoccupied attics and crawl spaces without a prescriptive ignition barrier or coating
• Air Barrier Association of America Evaluated Material ICC-ES AC377 Acceptance Criteria for Spray-Applied Foam Plastic Insulation
• GREENGUARD and GREENGUARD GOLD VOC Emission Testing Compliance
• JM Corbond III has zero Ozone Depletion Potential Help (ODP) and less than 730 Global Warming Potential (GWP)

REOCCUPANCY
• All occupants must vacate the building or the spray area must be cordoned off and remain separated from the occupied space for 24 hours after application
• The application area should be properly ventilated during application and for 24 hours post application
• Re-entry time for non-SPF trade workers: 12 hours
• Re-entry time for building occupants: 24 hours

PACKAGING
• 55 Gallon Drum (1,000 lbs per set)
• 250 Gallon Tote (5,000 lbs per set)

FLAMMABILITY CHARACTERISTICS***

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Burning at 4°F</td>
<td>ASTM E84</td>
<td>Class 1</td>
</tr>
<tr>
<td>Flame Spread Index</td>
<td></td>
<td>Flame Spread Index &lt; 25</td>
</tr>
<tr>
<td>Smoke Developed Index</td>
<td></td>
<td>Smoke Developed Index &lt; 450</td>
</tr>
<tr>
<td>Commercial Fire Resistance</td>
<td>NFPA 285</td>
<td>Assembly Passed</td>
</tr>
<tr>
<td>TPR2 Thermal Barrier</td>
<td>NFPA 286</td>
<td>Assembly Passed</td>
</tr>
<tr>
<td>DC 315 Thermal Barrier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attics &amp; Crawl Space Walls &amp; Roof</td>
<td>AC377 Appendix X</td>
<td>Roof 7.5&quot; max thickness</td>
</tr>
<tr>
<td>Uncoated Thickness</td>
<td></td>
<td>Wall 5.5&quot; max thickness</td>
</tr>
</tbody>
</table>

* These items are provided as general information only. They are approximate values and are not part of the product specifications.
** Residential exterior wall with 16" o.c. 2x4 wood studs, 2.76" Corbond III SPF, 15/32" exterior, OSB sheathing, and 1/2" gypsum board.
*** Numerical flame spread and all other data presented are not intended to reflect the hazards presented by this or any other material in actual fire situations.

HEALTH AND SAFETY
For information on Health and Safety, refer to Johns Manville Safety Data Sheets and the Spray Polyurethane Foam Alliance Health and Safety guidance documents at https://spraypolyurethane.org.
The Installation Guide and the Side A and Side B Safety Data Sheets must be read prior to product application.

**SUGGESTED PROCESSING PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum Storage Temperature</td>
<td>50° – 75°F (10° – 24°C)</td>
</tr>
<tr>
<td>Drum Temperature During Application</td>
<td>65° – 80°F (18° – 27°C)</td>
</tr>
<tr>
<td>Proportioner Preheat Temperature</td>
<td>Side A 95°F – 120°F (35°C – 49°C)  &lt;br&gt; Side B 105°F – 125°F (40°C – 52°C)</td>
</tr>
<tr>
<td>Hose Temperature</td>
<td>100° – 125°F (38° – 52°C)</td>
</tr>
<tr>
<td>Surface Temperature (Summer)</td>
<td>45° – 120°F (7° – 49°C)</td>
</tr>
<tr>
<td>Surface Temperature (Winter)</td>
<td>20° – 70°F (1° – 21°C)</td>
</tr>
<tr>
<td>Viscosity at 75°F</td>
<td>A: 250 cps  B: 650 cps</td>
</tr>
</tbody>
</table>

The initial settings are a guideline and ambient and substrate temperatures may require settings outside of the suggested range. Under no circumstances should a temperature of 135°F be exceeded without first contacting a JM technical representative.

**DRUM TEMPERATURE**

Material will perform better when its temperature is between 65° – 80°F. Drums may be placed into a heated room for two days before use to acclimate.

**MIXING / RECIRCULATION**

Mixing or recirculating Corbond III will lead to loss of blowing agent. JM Corbond III should NOT be mixed or recirculated.

**HUMIDITY**

Care should be taken if the relative humidity is greater than 80%. Excessive humidity will adversely affect system performance and physical properties.

**PRESSURE SETTINGS**

The finished foam properties are affected by both temperature and pressure settings. The goal of 1100 psi minimum at the gun when the trigger is pulled is an important part of proper mix. To achieve, you must take into account the pressure drop from the machine to the gun. A rough rule of thumb (depending on several parameters) is that the pressure will drop approximately 1 psi per foot of hose. Therefore, set the pressure at the machine so that when the trigger is pulled, the pressure maintained is the target gun pressure plus the pressure drop across the hose length. For example, a machine with 260 feet of hose should have a dynamic spray pressure of 1360 psi.

**PASS THICKNESS**

JM Corbond III may be applied in a single pass from a minimum of 0.5” to a maximum of 4”.

Multiple immediate passes, with no wait time, may also be applied as follows:

<table>
<thead>
<tr>
<th>R-Value</th>
<th>R-35</th>
<th>R-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Immediate Passes</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Thickness per Pass (in)</td>
<td>2 / 2.5</td>
<td>2 / 2 / 2</td>
</tr>
<tr>
<td>Maximum Total Thickness (in)</td>
<td>5.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

For application thicknesses above 8”, wait 30 minutes between passes (e.g. for a 8” total thickness, install two 4” lifts waiting 30 minutes between the passes).

**SHUT DOWN**

For breaks in application longer than 60 minutes:
1. Park the proportioner according to the manufacturer’s instructions.
2. Close the fluid shut off valves on the gun and grease the spray gun according to the manufacturer’s instructions when applicable.

**PARTIAL DRUM POUR-UP**

Residual materials should be properly handled and transferred to a new drum immediately for use within 3 - 5 days. Collecting multiple partially full drums for combining later is not a recommended practice and may result in poor quality foam.

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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of closed-cell spray polyurethane foam listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the sales office nearest you for current information.

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