QUIK-SHIELD® 118 is the an ultra-efficient, closed-cell spray foam insulation. It is ideal for high-performance and air barrier insulation applications in residential (IRC) and commercial (IBC) construction. QUIK-SHIELD® 118 increases jobsite efficiency, decreases labor and overhead costs, reduces jobsite risk, and delivers the lowest cost installed.

**TYPICAL PHYSICAL PROPERTIES**
Properties achieved in a lab environment at 77°F. Field conditions may cause variation in properties.

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Permeance (L/s/m²)</td>
<td>E-283 &lt;0.02</td>
</tr>
<tr>
<td>Air Permeance at 1” (L/s/m²)</td>
<td>E-2178-13 &lt;0.02</td>
</tr>
<tr>
<td>Closed-Cell, content (%)</td>
<td>D-6226 &gt;96</td>
</tr>
<tr>
<td>Compressive Strength (psi)</td>
<td>D-1621 25</td>
</tr>
<tr>
<td>Core Density (nominal, lb/ft³)</td>
<td>D-6226 1.8-2.0</td>
</tr>
<tr>
<td>Dimensional Stability (%)</td>
<td>D-2126 &lt;3</td>
</tr>
<tr>
<td>Tensile Strength (psi)</td>
<td>D-1623 &gt;32</td>
</tr>
<tr>
<td>Water Absorption (%)</td>
<td>D-2842 1</td>
</tr>
<tr>
<td>Water Vapor Permeance AT 1.2” (perms/in)</td>
<td>E-96 0.93</td>
</tr>
</tbody>
</table>

**RELATIVE INSULATION VALUES (aged)**

| R-value at 1” | 6.6 |
| R-value per inch at ≥ 3.5” | 6.5 |

**THERMAL BARRIER**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 315 (wet mils)</td>
<td>NFPA 286 14</td>
</tr>
<tr>
<td>Flame Control Coatings 60-60A (wet mils)</td>
<td>NFPA 286 20</td>
</tr>
<tr>
<td>TPR² FireShell F10E (wet mils)</td>
<td>NFPA 286 17</td>
</tr>
<tr>
<td>No Burn</td>
<td>UL-1715 14</td>
</tr>
</tbody>
</table>

**HANDLING PROPERTIES at 77°F (25°C)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>A-SIDE (ISO) 1.23 B-SIDE (RESIN) 1.22</td>
</tr>
<tr>
<td>Viscosity, cps</td>
<td>250±100 550±100</td>
</tr>
</tbody>
</table>

**RECOMMENDED STORAGE AND SHELF LIFE**

- Storage temperatures 50-100°F (10-38°C). See back for preconditioning of material
- 6 month shelf life from date of manufacture (unopened containers)
- Keep container tightly sealed
- Store out of direct sunlight, in a cool dry place, avoid freezing

**PRODUCT INFORMATION**

LEED
QUIK-SHIELD® 118 has a minimum of 9% total renewable/recycle content, 2.3% pre-consumer recycled, 5.2% post-consumer recycled, 1.6% rapidly renewable, and IEQ Credit - Low Emitting

Product Color
White to off-white (UV exposure will cause discoloration. Discoloration by itself is not a sign of product damage)

Product Packaging
275 Gallon Tote and 55 Gallon Drum

Reentry Times
1-hour Reentry for new residential construction with natural ventilation. 24-hour reoccupancy for commercial/retrofit

**APPROVALS / COMPLIANCE**
QUIK-SHIELD® 118 has been tested by a third party laboratory (Intertek Testings Services NA, Inc.) and evaluated by Priest and Associates Fire Consultants, LLC.

- CCRR-1093 NFPA 285, E-119 Type I-V construction, Class 1—ASTM E-84
- Approved in attics and crawlspaces without a prescriptive ignition barrier or intumescent coating - see CCRR-1093 for details
**PREPARATION OF SUBSTRATES**

Providing the proper substrate is the responsibility of the owner, the owner’s appointed representative, the contractor, and/or inspector. The following are manufacturer’s recommendations. However, other preparation techniques may be required given unique/specialized application circumstances. Contact SWD Technical Support at 888-380-2022 for additional questions.

It is recommended to remove dust, dirt, oil, paint, and alternative polymers from all surfaces prior to applying SWD products.

See SWD specifications or SPFA guidelines for further details on substrate prep.

| Wood | • Ensure wood is relatively dry and protect surfaces from contamination. For moisture content exceeding 19%, contact SWD Technical Support.  
• Water or oil present may cause poor adhesion or excessive foaming.  
• Fill large voids with appropriate backer rods or appropriate fillers.  
• If additional information is required, contact SWD Technical Support. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel &amp; Other Metals</td>
<td>• It is the responsibility of the contractor/end user to determine proper adhesion and suitability through field testing. Blasting and/or priming is not always required. If additional information is required, contact SWD Technical Support.</td>
</tr>
</tbody>
</table>
| Concrete | • If applying foam to concrete, the concrete surface should be structurally sound, clean, and curing for 28 days.  
• Blasting and/or priming is not always required. It is the responsibility of the contractor/end user to determine proper adhesion and suitability. If additional information is required, contact SWD Technical Support. |
| Previously Applied Foam or Other Polymers | • As practical, remove previously applied foam and other polymer products. Application of product over existing materials should be performed only after adhesion/compatibility is verified by the contractor and accepted by the building owner or owner’s appointed representative. |
| Wiring and Plumbing | • QUIK-SHIELD® 118 is fully compatible with CPVC piping systems (Paschal Engineering Study for the SPFA).  
• QUIK-SHIELD® 118 is compatible with typical electrical wiring coverings. (NEMA Bulletin 95) |

**PROCESSING**

1. **Preconditioning**
   1. If the drum temperature is 80°F (26.6°C) or higher, use caution when opening the drum! The contents will be under pressure.  
   2. It is recommended to precondition material to 55-80°F (13-27°C) prior to application. Material may thicken at lower temperatures which can cavitate pumps.

2. **Mixing**
   3. Do not mix.  
   4. Do not recirculate.

3. **Pressure Settings**
   5. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000 psi dynamic pressure.  
   6. Static pressure is typically set between 1100-1400 psi.  
   7. Dynamic pressure typically operates at a minimum of 1000 psi.

4. **Temperature Settings**
   8. Primary heaters and hose heaters are typically set between 110-140°F (43-60°C). Higher temperatures are utilized in winter months, lower temperatures are utilized in summer months.

Proper application temperature setting is the responsibility of the end user. Equipment temperature varies and can be dependent on equipment, hose length, elevation, ambient temperature, substrate temperature, humidity, and other factors. If additional information is required, refer to QS118 Processing Packet found on swdurethane.com and the SWD mobile app, or contact SWD Technical Support at 888-380-2022.

**APPLICATION**

1. Clean surfaces according to “Preparation of Substrates” section.  
2. If priming, follow manufacturer recommendations. Ensure primer is adequately cured prior to application.  
3. Substrate temperatures should be between 25-130°F (-4-54°C) Flashing is recommended at lower temperatures. Higher and lower application temperatures are possible, contact SWD Technical Support for more details.  
4. Flush an adequate amount of material through the lines/gun prior to spraying desired surface when changing between systems. Flush amount will be dependent on prior system used. If additional information is required, contact SWD Technical Support for more details.  
5. Do not recirculate.  
6. QUIK-SHIELD® 118 must not exceed 4” per lift.  
7. Before application, test material to ensure that material sprays, cures, and hardens properly.  
8. Inspect applied material intermittently to ensure no problems exist. If problems are detected, discontinue application and inspect all substrates, equipment, gun, and liquid material for problem source(s).

**CLEANING AND MAINTENANCE**

1. Spray equipment must be maintained in proper operating condition. Failure to adequately maintain spray equipment may result in poor product performance. Refer to your equipment manufacturer’s maintenance procedures for more details.  
2. Contact SWD for long-term equipment storage recommendations.