**TECHNICAL DATA SHEET**

**DUPONT™ TYVEK® FLUID APPLIED FLASHING–BRUSH FORMULATION**

A DURABLE, VAPOR PERMEABLE FLUID APPLIED FLASHING ENGINEERED FOR BRUSH APPLICATION. IDEAL FOR RESIDENTIAL WINDOWS

**DESCRIPTION**

Tyvek® Fluid Applied Flashing - Brush Formulation is a brush applied, vapor permeable elastomeric flashing material used to coat rough openings around windows and doors.

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM E2178</td>
<td>Air Penetration Resistance</td>
<td>cfm/ft² @ 75 Pa (1.57 psf)</td>
<td>0.0002</td>
</tr>
<tr>
<td>Gurley Hill (TAPPI T-460)</td>
<td>Air Penetration Resistance</td>
<td>sec/100 cc</td>
<td>&gt;10,000</td>
</tr>
<tr>
<td>ASTM E2357</td>
<td>Wall Assembly Air Penetration Resistance</td>
<td>cfm/ft² @ 75 Pa</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>ASTM E283</td>
<td>Wall Assembly Air Penetration Resistance</td>
<td>cfm/ft² @ 75 Pa</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>ASTM E1877</td>
<td>Wall Assembly Air &amp; Water Leakage</td>
<td>Type</td>
<td>NA</td>
</tr>
<tr>
<td>AATCC 127</td>
<td>Water Penetration Resistance</td>
<td>cm</td>
<td>&gt;1000</td>
</tr>
<tr>
<td>ASTM E96-00</td>
<td>Water Vapor Transmission</td>
<td>Method B perms</td>
<td>25 @ 25 mls</td>
</tr>
<tr>
<td>ASTM 1305</td>
<td>Low Temperature Crack Bridging</td>
<td>No cracking</td>
<td>PASS</td>
</tr>
<tr>
<td>ASTM D4541</td>
<td>Adhesion Strength - Concrete</td>
<td>psi</td>
<td>NA</td>
</tr>
<tr>
<td>ASTM D4541</td>
<td>Adhesion Strength - Exterior Gypsum (delaminates fiberglass topsheet)</td>
<td>psi</td>
<td>NA</td>
</tr>
<tr>
<td>ASTM D903</td>
<td>Peel Strength</td>
<td>lb/in (aluminum)</td>
<td>14 Cohesive failure</td>
</tr>
<tr>
<td>ASTM C794</td>
<td>Adhesion-In-Peel</td>
<td>lb/in (mortar)</td>
<td>PASS</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Tensile</td>
<td>psi</td>
<td>165</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Elongation at break</td>
<td>%</td>
<td>360</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Recovery (held at 250% elongation)</td>
<td>%</td>
<td>&gt;98</td>
</tr>
<tr>
<td>ASTM D2240</td>
<td>Hardness</td>
<td>Shore A</td>
<td>72</td>
</tr>
<tr>
<td>Accelerated weathering (G155)</td>
<td>Ultraviolet Light Exposure (UV)</td>
<td>months</td>
<td>9</td>
</tr>
<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics</td>
<td>Class</td>
<td>20</td>
</tr>
<tr>
<td>ASTM C1250</td>
<td>VOC</td>
<td>% (by wt.)</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>

Test results shown represent averages. Individual results may vary either above or below averages due to normal manufacturing variations, while continuing to meet product specifications.

**PRODUCT INFORMATION—FEATURES/BENEFITS**

**Air and Water Barrier Performance**
- Offers an ideal combination of air and water holdout with vapor permeability.
- Air Barrier Association of America evaluated to exceed ABAA, ASHRAE 90.1 and IECC air leakage requirements when tested in accordance with ASTM E2357.

**Ease of Installation**
- Single component, one-coat application. Excellent gunnability.
- Specially formulated to be brush applied for fast and easy application.
- Installation temperature range 25°F ambient (-4°C) to a maximum surface temperature 140°F (60°C). Do not install once ambient temperature exceeds 95°F (35°C), unless surface is shaded.
- Exhibits extremely low shrinkage during curing, minimizing the risk of cracking and pin-holing.
- Coverage is 2.5–3.5 lf/oz. depending on substrate conditions (temperature and moisture), substrate porosity, and uniformity of application.

**High Performance Durability**
- The formulation of Tyvek® Fluid Applied Flashing – Brush Formulation is not water soluble and will not lose physical properties or wash off the wall when exposed to liquid water, even before curing. Can be installed on damp surfaces which is defined as when no moisture is transferred to the skin when the substrate is touched.
- The cured membrane exhibits exceptional elongation and recovery properties. When stretched it acts like a rubber band allowing the membrane to move with the building.
- Withstands 9 months of UV exposure.

**Sustainable Solutions**
- Tyvek® Fluid Applied products may contribute toward LEED® points in the areas of Energy and Atmosphere (EA): Optimizing the Building Envelope and Indoor Environmental Air Quality (EQ); Construction IAQ Management Plan and Low Emitting Materials. In addition, the use of a continuous air barrier is a prerequisite for LEED® applications requiring compliance with ASHRAE 90.1-2010.
- By helping to effectively seal the building envelope and reducing air leakage, the Tyvek® Fluid Applied System helps reduce the amount of energy required for heating and cooling.
- Low VOC. < 2% (by wt.)

**Complete System**

Part of a complete, integrated fluid applied weather barrier system, all backed by a limited warranty from DuPont. For best results, use with Tyvek® Fluid Applied WB and DuPont™ Sealant for Tyvek® Fluid Applied System.
DUPONT™ TYVEK® FLUID APPLIED
FLASHING—BRUSH FORMULATION

APPLICATION/USE INSTRUCTIONS
Please refer to DuPont Installation Guidelines for complete instructions.

Use Conditions
Installation temperature range 25°F ambient (–4°C) to a maximum surface temperature 140°F (60°C). Do not install once ambient temperature exceeds 85°F (35°C), unless surface is shaded. Stirring not necessary. If separation should occur, you can gently fold material until mixture is uniform. Avoid any type of mixing that will introduce air into the product.

Safety Precautions for Use
Avoid contact with eyes and skin. Protective eyewear and gloves are recommended. CAUTION: Use only as directed. First Aid: Eye Contact: Wash thoroughly with water. If irritation persists, contact a physician. Skin Contact: Rinse thoroughly with citrus-based cleaners. KEEP OUT OF REACH OF CHILDREN.

Preparation
For membrane drainage wall systems, ensure that the drainage path is not blocked or disrupted, which can result in excess moisture buildup in the wall cavity. Remove all surface dust, dirt and loose mortar. Surface must be free from frost, grease, or other contaminants and must be reasonably smooth. Mortar joints in concrete block and voids in poured concrete shall be filled flush and smooth and allowed to cure for a minimum of 24 hours. Product can be installed on damp surfaces provided no moisture is transferred to the skin when the substrate is touched. This flexibility reduces substrate preparation and protection requirements.

Flashing Application
Use Tyvek® Fluid Applied Flashing—Brush Formulation completely around the window at 25 mils thick. Extend a minimum of 2" onto front surface. Inspect for gaps or pinholes and repair as necessary.

Curing
Tyvek® Fluid Applied Flashing—Brush Formulation is tack free or dry to touch within 2 hours at 70°F and 50% relative humidity. Curing occurs within 24 hours at 70°F and 50% relative humidity. Facade may be applied 24 hours after. Tack-free time and complete cure will vary with temperature, humidity and substrate conditions.

Clean-Up
Clean tools with mineral spirits, citrus-based cleaners, or gel-based paint striper.

TESTING/CODE COMPLIANCE
MOISTURE PROTECTION – WEATHER-RESISTANT BARRIERS
The 2012 International Building Code (IBC, Section 1403.2 Weather Protection) requires that exterior walls shall provide the building with a weather-resistant exterior wall envelope. This shall include flashing, as described in Section 1405.4. Tyvek® Fluid Applied System products have been tested and meet weather-resistant barrier codes and standards requirements. The following test methodologies were used:

• ASTM E96-00, Standard Test Methods for Water Vapor Transmission of Materials; Water resistant barriers are typically vapor permeable, which is generally desirable because it allows for drying of incidental moisture intrusion into the wall assembly
• AATCC 127, Hydrostatic Head Test for WRB Materials, measuring pressure to failure or time of failure at a given pressure
• ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, And Curtain Walls by Uniform Static Pressure.

AIR LEAKAGE CONTROL — AIR BARRIERS
ASHRAE 61.1 2010 (American Society of Heating, Refrigerating and Air-Conditioning Engineers) requires that the entire building envelope shall be designed and constructed with a continuous air barrier. This is a mandatory provision for the building envelope. IECC 2009/2012 (International Energy Conservation Code) for commercial buildings also requires a continuous air barrier. These codes are being adopted in many states across the United States. Tyvek® Fluid Applied System products have been tested and meet air barrier codes and standards requirements. The following test methodologies were used:

• ASTM E2178, Standard Test Method for Air Permeance of Building Materials
• ASTM E283, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
• ASTM E2357-Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
• ASTM E1677, Standard Specification for Air Barrier (AB) Material or System for Low-Rise Framed Building Walls
• ASTM E779-10 Standard Test Method for Determining Air Leakage Rate by Fan Pressureization (whole building)

Other
• ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials

Tyvek® Fluid Applied System products have been evaluated according to Air Barrier Association of America (ABAA) protocol and are listed at the ABAA website under “ABAA evaluated Air Barrier Assemblies.”

NOTICE
Tyvek® Fluid Applied System products should be covered with the facade within 9 months to limit UV exposure. Follow facade manufacturer’s installation and maintenance requirements in order to maintain water holdout. Depending on job site conditions, it is possible that stains may appear, but will not alter performance of the fluid applied product.

MATERIAL STORAGE/DISPOSAL
Tyvek® Fluid Applied products should be stored in a clean, dry environment, 50°F – 80°F (10°C – 27°C). Storage of the products in temperatures outside that range for short periods of time is acceptable. Please refer to the Tyvek® Fluid Applied FAQs at www.fluidapplied.tyvek.com

SHELF LIFE AND STORAGE
The shelf life is 12 months for an unopened container from the date of manufacture. Reference the “Use By” date printed on the container. Store opened containers with a plastic protective liner. Before reusing a previously opened container, first remove any cured material that may have formed at the top.

PACKAGING
Tyvek® Fluid Applied Flashing—Brush Formulation is available in 10.3 oz. and 28 oz. disposable cartridges and 3.5 gallon pails.

WARRANTY
Backed by a limited product warranty, see www.weatherization.tyvek.com.

LIMITATIONS
Tyvek® Fluid Applied Flashing—Brush Formulation should not be used for below grade applications or in applications in which it will be permanently exposed. Asphalt-based adhesives are not recommended for use with this product.

For more information visit us at www.fluidapplied.tyvek.com or call 1-800-44-Tyvek

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