DuPont™ Tyvek® Fluid Applied WB

A DURABLE, VAPOR PERMEABLE FLUID APPLIED WEATHER BARRIER

PRODUCT INFORMATION

FEATURES/BENEFITS

- **Performance:** Offers an ideal combination of air and water holdout with vapor permeability.
- **Ease of Installation:** Single component, one-coat application that may be sprayed and backrolled or pressure rolled for fast and easy application.
- **Enhanced Durability:** Easily withstands high windloads and offers up to nine months of UV resistance.
- **Low Shrinkage:** Exhibits extremely low shrinkage during curing, reducing the amount of product needed to complete installation.
- **Energy Efficiency:** By helping to effectively seal the building envelope, the DuPont™ Tyvek® Fluid Applied WB helps reduce the amount of energy required for heating and cooling.
- **Excellent Coverage:** Offers 2 to 3 times the coverage of competitive products. Approximately 55 to 65 sq. ft. / gallon in one coat.
- **Low VOC**
- For best results, use with DuPont™ Tyvek® Fluid Applied Flashing & Joint Compound.
- Part of a complete, integrated fluid applied weather barrier system, all backed by a limited warranty from DuPont.

DESCRIPTION

DuPont™ Tyvek® Fluid Applied WB is a low VOC, single-component elastomeric polyether-based polymer product with superior elasticity and flexibility. It is easily applied in one coat and has extremely low shrinkage during curing.

TYPICAL PROPERTIES

Please contact your local DuPont™ Tyvek® Specialist before writing specifications around this product. Typical properties are as follows:

TEST METHOD	PROPERTY	UNIT	VALUE
ASTM E2178	Air Penetration Resistance	cfm/ft² @ 75 Pa (1.57 psf)	0.0002
Gurley Hill (TAPPI T-460)	Air Penetration Resistance	sec/100 cc	>10,000
ASTM E2357	Wall Assembly Air Penetration Resistance	cfm/ft² @ 75 Pa	<0.01
ASTM E283	Wall Assembly Air Penetration Resistance	cfm/ft² @ 75 Pa	<0.01
ASTM E1677	Wall Assembly Air & Water Leakage	Type	Type I
ATTCC 127	Water Penetration Resistance	cm	>1000
ASTM E331	Wall Assembly Water Penetration Resistance	Tested to 15 psf	No leakage
ASTM E96-00	Water Vapor Transmission	Method B perms	25
ASTM 1305	Low Temperature Crack Bridging	No cracking	PASS
ASTM D4541	Adhesion Strength - Concrete	psi	>33
ASTM D4541	Adhesion Strength - Exterior Gypsum (delaminates fiberglass topsheet)	psi	>25
ASTM D903	Peel Strength	lbf/in (aluminum)	13.3 Cohesive failure
ASTM C794	Adhesion-In-Peel	lbf/in (mortar)	PASS
ASTM D412	Tensile	psi	169
ASTM D412	Elongation	%	420
ASTM D2240	Hardness	Shore A	71
Accelerated weathering (G155)	Ultraviolet Light Exposure (UV)	months	9
ASTM E84	Surface Burning Characteristics	Class Flame Spread Index Smoke Developed Index	Class A 25 25
ASTM C1250	VOC	% (by wt.)	<2

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APPLICATION/USE INSTRUCTIONS

USE CONDITIONS
Use when ambient temperatures are 25° - 100° F (-4° - 38° C). Do not thin. Stirring not necessary.

ACTIVE INGREDIENTS
Calcium carbonate

SAFETY PRECAUTIONS FOR USE
Vapor harmful if using spray application. Use in a well ventilated area. Use a NIOSH approved respirator. If vapors are inhaled, immediately remove from exposure and contact a physician. Avoid contact with eyes and skin. Protective eye wear and gloves are recommended.

CAUTION: Use only as directed. Avoid contact with eyes. 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
Remove all surface dust, dirt and loose mortar. 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. Surfaces may be damp but not wet and must be clean, free from frost, grease, dirt, or other contaminants and must be reasonably smooth.

APPLICATION
Complete all joint fill and flashing beforehand. Tyvek® Fluid Applied WB may be sprayed, rolled or brush applied. Application using a pressure roller, such as a Graco Pressure Roller, is preferred. Apply in a single application at 25 mils thick, spot check with a wet mil gauge. Inspect surface for voids and pinholes and repair as necessary.

CURING
DuPont™ Tyvek® Fluid Applied Weather Barrier 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 after 24 hours. 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 stripper. Material should not be left in the pump, hose, gun, or pressure roller. After applying, flush system with a citrus-based cleaner, or mineral spirits until the system is clean. Avoid using water for cleanup. Low pressure portions of the system should be taken apart and cleaned by hand. Before the next usage, flush any remaining solvent out of the system before applying Fluid Applied WB to the wall. Be sure that system is fully clean of any product before introducing a different product. If system is not fully clean, products can react and cause products to cure in the system.

EQUIPMENT
Application using a pressure roller, such as the Graco Pressure Roller, is the preferred method of installation of Tyvek® Fluid Applied WB. The pressure roller can be used in conjunction with the a variety of pumps, such as the Graco IronMan 300E, IronMan 500G, GH 733, GH 833 or equivalent. All manufacture limitations should be followed. DuPont™ Tyvek® Fluid Applied WB may be sprayed using a high pressure air powered, airless sprayer such as the Graco X70 Xtreme® Sprayer with a 0.017" – 0.025" tip. All filters should be removed.

Please refer to DuPont™ Tyvek® Fluid Applied WB Installation Guidelines for complete instructions.

APPROVALS / SPECIFICATIONS
The 2009 International Building Code (Section 1403.2 Weather Protection) requires that exterior walls shall provide the building with a weather resistant exterior wall envelope. The exterior wall envelope shall include flashing, as described in Section 1405.3. DuPont™ Tyvek® Fluid Applied Weather Barrier System products have been tested to the following standards.

- ASTM E 331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, And Curtain Walls by Uniform Static Pressure
- ASTM E 2178 Standard Test Method for Air Permeance of Building Materials
- ASTM E 2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- ASTM E 283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

Energy Conservation Codes for commercial buildings are being adopted in many regions across the U.S. DuPont™ Tyvek® Fluid Applied Weather Barrier System products meet the following codes and guidelines.

- Proposed ASHRAE 90.1 Model Energy Code air barrier requirements
- Minnesota Commercial Energy Code, Section 1323.0543, Section 5.4.3
- Massachusetts State Building Code 780 CMR 120.AA
- Wisconsin Building Code, Energy Conservation, Chapter Comm 63
- Michigan Building Code
- Rhode Island Building Code
- Georgia Building Code
- Florida Building Code

NOTICE
DuPont™ Tyvek® Fluid Applied WB 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.

MATERIAL STORAGE/DISPOSAL:
Storage and Disposal: Material should be stored in a clean, dry environment, 50° - 80° F (10° - 27° C). Dispose per local codes and regulations.

SHELF LIFE AND STORAGE
The shelf life is 12 months for an unopened container. After opening, it is best to store opened containers with a plastic protective liner.

PACKAGING
DuPont™ Tyvek® Fluid Applied WB is available in 5 gallon pails and 50 gallon drums.

WARRANTY
Backed by a limited product warranty, see www.Weatherization.Tyvek.com.

LIMITATIONS
DuPont™ Tyvek® Fluid Applied WB 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.

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