

DUPONT™ TYVEK® FLUID APPLIED FLASHING AND JOINT COMPOUND+

A DURABLE, VAPOR PERMEABLE TROWELABLE AND/OR BRUSHABLE FLUID APPLIED FLASHING AND JOINT COMPOUND FOR USE ON MOST COMMERCIAL WALL SUBSTRATES



DESCRIPTION

Tyvek® Fluid Applied Flashing and Joint Compound+ is a full-bodied brushable and/or trowel applied, vapor permeable elastomeric flashing material. Tyvek® Fluid Applied Flashing and Joint Compound+ is used to flash rough openings for windows and doors; to fill seams, cracks, and holes in substrate; to seal around penetrations; and to treat joints and transitions between building components.

TYPICAL PROPERTIES

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

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
- Trowelable and/or brushable 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.
- Reduces material waste by combining the functions of two products – flashing and joint compound.

High Performance Durability

- The formulation of Tyvek® Fluid Applied Flashing and Joint Compound+ is not water soluble and will not 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 DuPont™ Tyvek® Fluid Applied WB+™ and DuPont™ Sealant for Tyvek® Fluid Applied System.

Test Method	Property	Typical Value	Units
ASTM D2369	Solids	99	%
ASTM E2178	Skinover Time @50% R.H. 70 deg F	1 to 2	Hrs
ASTM E2178	Air Penetration Resistance	0.0002	cfm/ft2 @ 75 Pa (1.57 psf)
Gurley Hill (Tappi T-460)	Air Penetration Resistance	>10,000	sec / 100 cc
ASTM E2357	Wall Assembly Air Penetration Resistance	<0.0002	cfm/ft2 @ 75 Pa
ASTM E283	Wall Assembly Air Penetration Resistance	<0.0002	cfm/ft2 @ 75 Pa
ASTM E1677	Wall Assembly Air & Water Leakage	Type I	Type
AATCC 127	Water Penetration Resistance	>1000	cm
ASTM E331	Wall Assembly Water Penetration Resistance	No Leakage	Tested to 15 psf
ASTM E96-00	Water Vapor Transmission	22 @ 25 mils Thick	Method B Perms
ASTM C1305	Low Temperature Crack Bridging	PASS	No Cracking at 25 mil Thickness
ASTM D903	Peel Strength	13 Cohesive Failure	lbf/in (aluminum)
ASTM C794	Adhesion - in - Peel	PASS	lbf/in (mortar)
ASTM D412	Tensile	220	psi
ASTM D412	Elongation at Break	380	%
ASTM D412	Recovery (held at 300% elongation)	99	%
ASTM D2240	Hardness	34	Shore A
Accelerated Weathering (ASTM G-155)	Ultraviolet Light Exposure (UV)	9	Months
ASTM D1970	Nail Sealability	PASS	No Leakage
NFPA 285	Flame Propagation. Multiple Assemblies	PASS	

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Test Method	Property	Typical Value	Units
AAMA 714-15	Voluntary Specification for Liquid-Applied Flashing Used to Create a Water Resistive Seal Around Exterior Wall Opening in Buildings.	PASS	
ASTM C1250	VOC	<2 25-30	% (by wt) g/L

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.

APPLICATION/USE INSTRUCTIONS

Please refer to *DuPont™ Fluid Applied WB+™ Wall and Substrate Guidelines* (K-29398) and *DuPont™ Tyvek® Fluid Applied Flashing Installation Guidelines* (K-29397) for complete instructions.

USE CONDITIONS

DuPont™ Tyvek® Fluid Applied Products are intended to be installed on a membrane drainage wall system. Do not install on a wall that does not feature a continuous path for moisture drainage. 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. 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.

PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fumes/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant. Vapor and aerosols are harmful if using spray application. Use in a well-ventilated area. Use NIOSH approved respirator. If vapors are inhaled, immediately move from exposure to fresh air and contact a physician. Avoid contact with eyes and skin.

DANGER

KEEP OUT OF REACH OF CHILDREN.

USE ONLY AS DIRECTED.

AVOID INHALATION OF VAPOR AEROSOL.

HAZARD STATEMENT

May cause an allergic skin reaction. May cause serious eye damage. May cause genetic defects. May cause cancer. May damage fertility or the unborn child.

SUPPLEMENTAL INFORMATION

May cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation of respiratory tract. This product is a mixture. Health Hazard information is based on its components. Refer to Safety Data Sheet (SDS) for further information. For more information, visit us at www.fluidapplied.tyvek.com or call 1-800-440-Tyvek

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, and dirt. Surface must be free from frost, grease, fins, ridges, mortar, and other projections and fill honeycomb,

aggregate pockets, holes, recessed mortar joints and other voids in concrete with substrate-patching material 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.

JOINT TREATMENT APPLICATION

Joints and seams in the substrate can be treated with Tyvek® Flashing and Joint Compound+. *DuPont™ Tyvek® Fluid Applied Wall and Substrate Guidelines* (K-29398) describe various methods, based on the size of the joint and utilizes different accessory materials such as: Flashing and Joint compounds, mesh tape and Butyl-based flashing products.

CURING

Tyvek® Fluid Applied Flashing and Joint Compound+ is tack free or dry to touch within 2 hours at 70°F and 50% relative humidity. Tack-free time and complete cure will vary with temperature, humidity and substrate conditions. Un-cured DuPont™ Tyvek® Fluid Applied products should not come in contact DuPont™ Tyvek® Mechanically-Fastened Air and Water Barriers. Refer to the Curing table in the *DuPont Fluid Applied WB+™ Wall and Substrate Guidelines* (K-29398), page 11, for details.

CLEAN-UP

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

TESTING/CODE COMPLIANCE

Moisture Protection – Weather-Resistant Barriers

The 2012/2015 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 resistive 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 90.1 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 2009/2012/2015 (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 Pressurization (whole building)



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OTHER

- AMAA 714-15 Voluntary Specification for Liquid-Applied Flashing Used to Create a Water Resistive Seal Around Exterior Wall Opening in Buildings
- NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

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°- 80°F, (10°- 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 placed directly over top of the remaining product, and apply bucket lid.

PACKAGING

Tyvek® Fluid Applied Flashing and Joint Compound+ is available in 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 and Joint Compound+ 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

