DuPont™ Tyvek™ Fluid Applied Flashing and Joint Compound+

Vapor-Permeable Flashing Material for Commercial Wall Substrates

OVERVIEW

Description

DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ is a full-bodied, trowel-applied, vapor-permeable elastomeric flashing material. It combines the functions of both flashing and joint compound into a single unique product that is an integral part of the DuPont™ Tyvek® Fluid Applied System.

Tyvek® Fluid Applied Flashing and Joint Compound+ is Air Barrier Association of America (ABAA) evaluated and satisfies ASHRAE 90.1 and IECC maximum air leakage requirements.



Features and Benefits

- **High Performance Durability:** The single component, silyl-terminated polyether (STPE) formulation of DuPont™ Tyvek® Flashing and Joint Compound+ is not water-soluble and will not lose physical properties or wash off the wall when exposed to liquid water, even before curing. Passes AAMA 714, Specification for Liquid Applied Flashing Used to Create a Water –Resistive Seal Around Exterior Wall Openings in Buildings. Excellent elasticity, with over 99% recovery at 300% elongation. Can be installed on damp surfaces, which is defined as when no moisture is transferred to the skin when the substrate is touched. Tyvek® Fluid Applied Flashing and Joint Compound+ may be exposed to UV for 9 months (270 days).
- **Air and Water Resistance:** Tyvek® Fluid Applied Flashing and Joint Compound+ offers an ideal combination of air and water holdout along with vapor permeability. When installed as part of the DuPont™ Tyvek® Fluid Applied WB+™ System and/or in hybrid flashing applications with DuPont™ Tyvek® Building Wraps and DuPont Self-Adhered Flashing Products, passes air leakage testing per ASTM E2357 and water infiltration resistance up to 15psf when tested in accordance with ASMT E331.
- **Ease of Use:** High percent solids formulation – low shrinkage during curing, enabling single coat application. Excellent gunnabillity, with easy tooling when minimum ambient and surface temperatures are 25 °F (-4 °C) and rising Brushable and trowelable for fast and easy application.

Sustainable Solutions

- 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.)

Applications

- Treat joints and transitions with other building components
- Fills holes in substrate
- Seal around penetrations
- Sheathing seam treatment
- Flash rough openings for windows and doors
- Some applications for Tyvek® Fluid Applied Flashing and Joint Compound+ include:

Warranty

- DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ is backed by 10-Year Limited Warranties when installed with DuPont™ Tyvek® Water-Resistive and Air Barriers (WRB). For more information, refer to Warranty section at building.dupont.com

- 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.

Complete System

- Tyvek® Fluid Applied Flashing and Joint Compound+ is 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+™.

Standard Sizes

Standard Sizes for DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+

Unit	Unit Size	Units per Case	Cases per Pallet	Units per Pallet
Cartridge	28 oz	12	60	720
Pail	3.5 Gallon	-	-	36

TESTING AND CODE COMPLIANCE

Tyvek® Fluid Applied Flashing and Joint Compound+ exhibits physical properties as indicated in the table below when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-833-338-7668 when additional guidance is required for writing specifications that include this product.

TEST METHOD	TEST TITLE	PROPERTY	RESULTS
FIRE			
NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	Flame Propagation. Multiple Assemblies	PASS
STRENGTH			
ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	Tensile	245 psi
ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	Elongation at Break	400%
ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	Recovery (held at 300% elongation)	>99%
ASTM D2240	Standard Test Method for Rubber Property—Durometer Hardness	Hardness (Shore A)	69
AIR			
ASTM E2178	Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials	Air Penetration Resistance	0.0002 cfm/ft^2 @ 75 Pa (1.57 psf)
TAPPI T-460	Air resistance of paper (Gurley method), Test Method	Air Penetration Resistance	>10,000 sec/100 cc
ASTM E2357	Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies	Wall Assembly Air Penetration Resistance	<0.01 cfm/ft^2 @ 75 Pa (1.57 psf)
ASTM E283	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen	Wall Assembly Air Penetration Resistance	<0.01 cfm/ft^2 @ 75 Pa (1.57 psf)
WATER			
AATCC 127	Test Method for Water Resistance: Hydrostatic Pressure	Water Penetration Resistance	>1000 cm
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference	Wall Assembly Water Penetration Resistance	No leakage Tested to 15 psf

ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission Method B	25 perm @ 25 mils
ADHESION			
ASTM D903	Standard Test Method for Peel or Stripping Strength of Adhesive Bonds	Peel Strength	19 lbf/in; cohesive failure (aluminum)
ASTM C794	Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants	Adhesion-In-Peel	PASS (mortar)
GENERAL			
ASTM D1970	Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection	Nail Sealability	PASS No leakage
AAMA 714	Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings	Voluntary Specification for Liquid-Applied Flashing Used to Create a Water Resistive Seal Around Exterior Wall Opening in Buildings.	PASS
ASTM C1250	Standard Test Method for Nonvolatile Content of Cold Liquid-Applied Elastomeric Waterproofing Membranes	VOC	<2 % (by wt.) 25-30 g/L
ASTM C1305	Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane	Low Temperature Crack Bridging	PASS No cracking at 25 mil thickness

Note:- 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.

INSTALLATION

Use Conditions

- DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ should be covered within 9 months of installation.
- Use when temperatures are above 25 °F (-4 °C).
- Can be applied to damp surfaces.

Installation

- Clean substrate by removing any substance that may affect the adhesion of DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+, such as frost, oil, grease, mold, and/or efflorescence.
- Remove all dust, dirt, and/or loose mortar from the substrate using a trowel or brush.

Curing

- At 25 mils & 70 °F (20 °C) / 50% RH: Skin time 1-2 hr., resistant to minor abrasion and fastener penetration after 24 hours. Can be covered by building wraps, exterior insulation, or cladding after 48 hr. Full cure in 14 days.

HANDLING

Cleanup & Disposal

- Waste disposal: Comply with applicable Federal, State, and Local Regulations.
- Clean-up: Clean tools with mineral spirits or Naphtha citrus based cleaners. Please refer to the applicable Installation Guidelines, for more information.

Precautionary Statements

- **Hazard Statement: DANGER!** May cause an allergic skin reaction. May cause serious eye irritation. May cause genetic defects. May damage fertility or the unborn child.
- Please obtain special instructions at www.fluidapplied.tyvek.com before use. Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapors/spray. Cover all skin. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face protection.

Life & Storage

- Product should be stored in controlled conditions, in a clean, dry environment, 50 °F - 80 °F (10 °C - 27 °C). Proper storage results in twelve (12) month shelf life. High temperatures and relative humidity may reduce shelf life.

Wear protective gloves. Use personal protective equipment as required.

- **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. Please refer to the Safety Data Sheet for first aid information.
- 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.
- 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.
- Please refer to the Safety Data Sheet for first aid information. (SW-FLX-30)

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