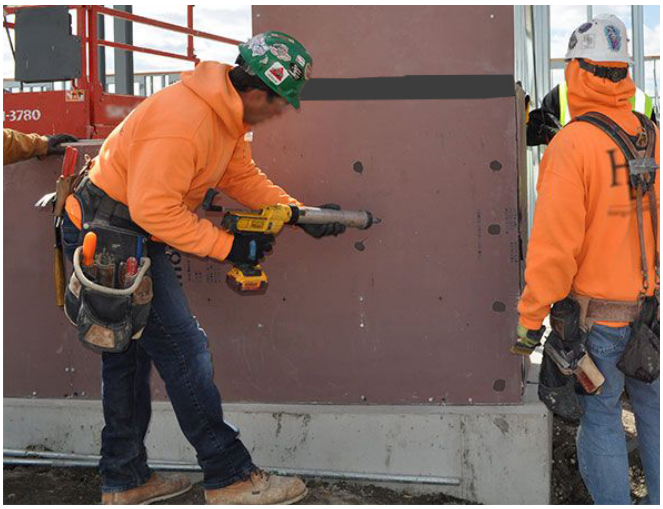
DuPont™ LiquidArmor™ FJ Flashing and Joint Compound

Vapor-Permeable Flashing Material for Commercial Wall Substrates

OVERVIEW

Description

DuPont™ LiquidArmor™ FJ Flashing and Joint Compound is a brush or 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™ ArmorWall™ System**.



Features and Benefits

- **High Performance Durability:** The single component, silyl-terminated polyether (STPE) formulation of **DuPont™ LiquidArmor™ FJ** 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 90% 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. **LiquidArmor™ FJ** may be exposed to UV for 270 days (9 months).
- **Air and Water Resistance:** Offers an ideal combination of air and water holdout along with vapor permeability. When installed as part of the DuPont™ ArmorWall™ System, passes assembly air leakage testing per ASTM E2357 and assembly water resistance testing up to 15 psf per ASTM E331.
- **Ease of Use:** High percent solids formulation - low shrinkage during curing, enabling single-coat application. Excellent gunnability, with easy tooling when minimum ambient and surface temperatures are 20 °F (-6.6 °C) and rising. Brushable and trowelable for fast and easy application.

Applications

- Applications for **LiquidArmor™ FJ** include sealing panel joints of **DuPont™ ArmorWall™ System**, treat joints and transitions between building components, sealing over fasteners of various types, flashing around windows and doors, fills seams, cracks, and holes in substrate, and seals around penetrations.
- **LiquidArmor™ FJ** adheres to many substrates and materials including DuPont™ ArmorWall™ Plus and ArmorWall™ SP Plus, DuPont™ DuraGard™ WD, exterior gypsum, plywood, and OSB sheathings, metal and masonry/concrete substrates, and self-adhered flashing top sheets.
- **LiquidArmor™ FJ** offers an ideal combination of air and water holdout along with vapor permeability.

Standard Sizes

U.S Stock Sizes for DuPont™ LiquidArmor™ FJ Flashing and Joint Compound

Unit	Unit Size	Units per Case	Cases per Pallet	Units per Pallet
Sausage	20 oz	16	50	800

TESTING AND CODE COMPLIANCE

DuPont™ LiquidArmor™ FJ exhibits physical properties as indicated 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
STRENGTH			
ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	Tensile	215 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)	>92%
ASTM D2240	Standard Test Method for Rubber Property—Durometer Hardness	Hardness	69 Shore A
ADHESION			
ASTM D4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers	Adhesion Strength - Exterior Gypsum	Delaminates fiberglass topsheet
ASTM D903	Standard Test Method for Peel or Stripping Strength of Adhesive Bonds	Peel Strength	19 lbf/in (aluminum) Cohesive Failure
ASTM C794	Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants	Adhesion-in-Peel	19.5 lbf/in (mortar)
FIRE			
NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	Flame Propagation	PASS Multiple Assemblies
AIR			
ASTM 2178	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	<0.04 cfm/ft^2 @ 75 Pa
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	<0.04 cfm/ft^2 @ 75 Pa
WATER			
AATCC 127	Test Method for Water Resistance: Hydrostatic Pressure	Water Penetration Resistance	>1000 cm
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission	14 @ 35 mils Method B perms
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
GENERAL			
AAMA 714	Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal Around Exterior Wall Openings in Buildings	Liquid Flashing Requirements	PASS
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
ASTM C1305	Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane	Low Temperature Crack Bridging	PASS No cracking at 30 mil thickness
ASTM C1250	Standard Test Method for Nonvolatile Content of Cold Liquid-Applied Elastomeric Waterproofing Membranes	VOC	<2 % (by wt.) 25-30 g/L
ASTM G155	Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials	Ultraviolet Light Exposure (UV)	9 months, no change

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

- **LiquidArmor™ FJ** should be covered within 9 months of installation.
- Use when substrate and ambient temperatures are above 20°F (-6.6°C) and rising. Maximum service temperature is 180°F (82.2°C).
- Can be applied to damp surfaces.

Preparation

- Clean substrate by removing any substance that may affect the adhesion of **LiquidArmor™ FJ**, 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.

Installation

- **LiquidArmor™ FJ** can be applied by brush or trowel.
- At 35 mils (+/- 5 mils) & 70°F (21°C) / 50% RH: Skin time 1-2 hr., resistant to minor abrasion and water penetration around fasteners after 24 hours.
- Theoretical Coverage: When applied at a ¼" (6.35 mm) diameter bead, approx. 61 ln. ft. (19 m) per 20 oz. sausage. When brush/troweled at 3" (7.62 cm) application width, at 30-40 mil wet film thickness, approx. 25 - 33 ln. ft. (7.5 - 10m) per 20 oz. sausage.
- When brush/troweled at 30-40 mil wet film thickness, approx. 6.2 - 8.3 ft^2 (0.58 - 0.77 m^2) per 20 oz. sausage. Rough and/or porous surfaces can reduce coverage rates.
- Can be covered by building wraps, exterior insulation, or cladding after 48 hr. Full cure in approximately 14 days dependent on ambient conditions.
- Please refer to the full installation guide, Installation Procedures for DuPont™ LiquidArmor™ FJ under "Resources" for further details.

HANDLING

Warning

- **Warning: For Professional Use Only** Read and follow the entire Handling section and the Safety Data Sheets carefully before use. The information below is designed to protect the user and allow for safe use and handling of **DuPont™ LiquidArmor™ FJ**.Follow all applicable federal, state, local and employer regulations.
- CAUTION: KEEP OUT OF REACH OF CHILDREN.

Precautionary Statements

- **Hazard Statement: DANGER!** May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.
  Please obtain special instructions at LiquidArmorFJ.DuPont.com before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Cover all skin. Wash skin thoroughly after handling.
  Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/ face protection. Wear protective gloves and protective clothing. 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.

Cleanup and Disposal

- **Clean-up:** Clean tools with mineral spirits or Naphtha citrus based cleaners. Please refer to the full installation guide, **Installation Procedures for DuPont™ LiquidArmor™ FJ** under Resources.
- **Waste disposal:** Comply with applicable Federal, State, and Local Regulations.

Life and Storage

- Product should be stored in controlled conditions, in a clean, dry environment, 50°-80°F (10°-27°C). Proper storage results in fifteen (15) month shelf life for sausage. High temperatures and relative humidity may reduce shelf life.

For more information, visit us at
LiquidArmorFJ.DuPont.com
or call us at 1-833-338-7668

Issue Date: 4/4/2025

Print Date: 4/07/2025