

DuPont™ LiquidArmor™ LT Flashing and Sealant

Advanced Flashing Solution for Low-Temperature Commercial Applications

FEATURES/BENEFITS

Description

DuPont™ LiquidArmor™ LT Flashing and Sealant* is a durable, flexible, single-component silicone flashing alternative suitable for low-temperature applications, designed to provide commercial buildings with advanced moisture and air sealing protection. It forms tight and seamless barriers along the rough openings of windows and doors as well as insulation board joints. Compatible with Performance Building Solutions' commercial wall systems and foam insulation products, LiquidArmor™ LT is formulated as a cold weather alternative to LiquidArmor™ CM, allowing application as low as -29°C (-20°F).

LiquidArmor™ LT features a long tooling time to facilitate workflow of prepping a whole window opening and is designed to have high abrasion resistance and durability during the window and door installation process. It seals gaps up to 6mm (1/4 in.) wide and offers a reliable replacement to peel and stick flashing tapes as well as liquid flashing products that require a mesh.

LiquidArmor™ LT is trowel-applied after either dispensing from a sausage gun or directly from a pail. It works on a wide range of surfaces without primer, including foam boards, steel studs, fiberglass-faced gypsum board and concrete masonry units. The moisture-cured, fluid flashing solution seals around screws and veneer anchors, resulting in a durable and resilient barrier suited to withstand jobsite variations. Once LiquidArmor™ LT is applied at board joints and penetrations, it forms part of a continuous air and moisture barrier per DuPont's commercial wall systems.

Ease of Use

LiquidArmor™ LT is easy to handle and apply. Some benefits include:

- Wide application temperature range of -29°C (-20°F) to 49°C (120°F)
- Time-saving, one-step application (no mesh required)
- No measuring, cutting or folding required
- Easy conformation to complex geometries
- High abrasion resistance and durability during installation
- Freeze-thaw tolerance
- Heat-age tolerance
- Rain resistance after 5 hours

Available Sizes

LiquidArmor™ LT is available in 7.6 litre (2 gallon) pails and 0.6 litre (20 oz.) sausages at select locations.

PROPERTIES

LiquidArmor™ LT Flashing and Sealant exhibits physical properties as indicated in Tables 1 and 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

TABLE 1: Typical Liquid Properties for LiquidArmor™ QS Flashing and Sealant

Property	Typical Value	Units
Form	Gray, trowel-applied flashing and sealant	-
Volatile Organic Compounds (VOC)	52	g/L
Specific Gravity	16	-
Shelf Life	12	months
Working Time (ASTM C98)	30	min.

* LiquidArmor™ LT is a former product of The Dow Chemical Company

TABLE 2: Typical Cured Properties for LiquidArmor™ LT Flashing and Sealant

Test Method	Property	Typical Value	Units
ASTM C661	Durometer Hardness, Shore A	40	points
ASTM D412	Tensile Strength	1450 (210)	kPa (psi)
ASTM D412	Elongation at Break	270	%
ASTM E96, Procedure B	Water Vapor Transmission (@ ~28 dry mils)	180 (3.1)	ng/Pa-s-m ² (perm)
ASTM D4541	Pull Adhesion to Thermax™, Gypsum-Based Sheathing, Plywood, OSB, metals	>110 (>16)	kPa (psi)

INSTALLATION

Use Conditions

- Surface and ambient temperatures should be -29°C (-20°F) and rising and below 49°C (120°F) during application.
- DuPont™ LiquidArmor™ LT Flashing and Sealant tolerates rain within 15 minutes of installation; however, do not apply to surfaces with standing water, frost, or that are continuously immersed in water.
- LiquidArmor™ LT should not be applied: in structural applications, in totally confined spaces (as the sealant requires moisture to cure), or to surfaces in direct or indirect contact with food.

Preparation

- Read all safety information and conditions of use before applying product.
- To facilitate best results, apply to clean surfaces free of contaminants.
- Remove and replace damaged sheathing prior to application.
- Fill any gaps that are greater than 6mm (1/4 in.) wide with backer rod, apply a bead of LiquidArmor™ LT and tool it before applying the LiquidArmor™ LT to the broader wall.

Application

- Trowel LiquidArmor™ LT to a wet thickness of 0.8 mm +/- 0.1 mm (30 mils +/- 5 mils) at all locations. Trowel LiquidArmor™ LT to min 25 mm (1 in.) wide on board joints.

- Cover the rough opening per flashing design details, applying the LiquidArmor™ LT a minimum of 75 mm (3 ins.) onto the sheathing face completely covering the sheathing board edge. The LiquidArmor™ LT should extend a minimum of 75 mm (3 ins.) back onto the rough opening substrate or 1 inch behind where primary air and water seal is to be installed, whichever is greater.
- When counterflashing or flashing around penetrations, LiquidArmor™ LT should extend a minimum of 50 mm (2 in.) onto the sheathing face and a minimum of 50 mm (2 in.) onto the penetration substrate or primary flashing substrate.
- After application, ensure a consistent film thickness and visually inspect for missed spots. If there are missed spots, trowel apply more LiquidArmor™ LT to those areas.
- In rough opening areas, install window and doors per the manufacturer's instructions..

Curing

- Allow LiquidArmor™LT to "dry-to-touch."
- LiquidArmor™ LT typically skins over in 30 – 45 minutes.

Equipment

LiquidArmor™ LT can be applied using a standard construction sausage gun designed for 0.6 litre (20 oz.) sausages. Either a standard conical nozzle or fan nozzle can be used to lay down a wide bead of LiquidArmor™ LT on the substrate. A troweling tool is then used to evenly distribute the flashing over the desired area. Alternatively, LiquidArmor™ LT can be removed from a pail and directly trowel-applied over substrates.

TESTING

Applicable Standards

LiquidArmor™ LT Flashing and Sealant was designed to comply with the following standards listed in codes when used in DuPont commercial wall systems:

- ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference

- ASTM E2357 – Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.

Contact your DuPont sales representative or local authorities for state/provincial and local building code requirements and related acceptances.

HANDLING

WARNING: For Professional Use Only. Read and follow the entire Safety, Handling, and Storage section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont products. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

- As with any construction site, follow basic safety practices. Follow all spray equipment instructions and warnings.
- It is recommended that spray applicators and those working in the spray area wear eye protection such as safety glasses with side shields or goggles. Gloves are recommended for prolonged exposures.
- Contact with exposed skin may cause skin discoloration and dryness.
- Ensure adequate ventilation during spray applications. Do not apply to surfaces with standing water or frost.
- DuPont™ LiquidArmor™ LT Flashing and Sealant should not be applied: in structural applications, in totally confined spaces (because the sealant requires moisture to cure), or to surfaces in direct or indirect contact with food.

Disposal

Dispose of any residual DuPont product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.



**For more information visit us at
building.dupont.com
or call 1-800-448-9835**

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DuPont™ Polyurethane Foam Insulation and Sealants

CAUTION: When cured, these products are combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F (116°C). For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

Great Stuff Pro™ Polyurethane Foam Sealant contains isocyanate and a flammable blowing agent. Read all instructions and (Material) Safety Data Sheet ((M)SDS), carefully before use. Eliminate all sources of ignition before use. Cover all skin. Wear long sleeves, gloves, and safety glasses or goggles. Not for use in aviation, or food/beverage contact, or as structural support in marine applications. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure. Not to be used for filling closed cavities or voids such as behind walls and under tub surrounds; this improper use of the product could result in the accumulation of flammable vapors and/or uncured material. Failure to follow the warnings and instructions provided with the product, and/or all applicable rules and regulations, can result in injury or death.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.