

OVERVIEW & FEATURES

Tuff-Flash Plus LO is a low-odor, two-part, asphaltic polyurethane-based liquid flashing membrane designed for sealing challenging roofing details where traditional membranes are difficult to install. When combined with Grip Polyester™ Firm, it forms a seamless, watertight flashing system that adheres effectively to smooth or mineral-surfaced modified bitumen membranes as well as various metal substrates.

Long-Term Protection – Tuff-Flash Plus LO utilizes advanced polyurethane chemistry that undergoes a chemical cure, resulting in increased durability and long-term strength. Unlike solvent-based coatings that cure through evaporation, this system forms a resilient, high-performance membrane that outlasts traditional rubberized coatings.

Low-Odor Application – Formulated for use in odor-sensitive environments such as hospitals, schools, and food processing facilities. The low-VOC, asphaltic polyurethane blend minimizes disruptions during application.

Versatile Performance – Engineered to seal complex roof penetrations and difficult flashing details where modified membranes or pitch pockets may be ineffective. Compatible with SBS, APP, and smooth or mineral-surfaced asphaltic roofs, as well as properly prepared metal surfaces. Easily applied with a brush or trowel, making it ideal for in-house maintenance teams and field repairs.

Environmentally Safer Alternative – Low in VOC content and free from the need for torches or hot kettles. Once cured, Tuff-Flash Plus LO provides the appearance and performance of hot-applied rubberized asphalt without the safety risks or equipment requirements.

Quick Curing – Allows for application of a reflective topcoat within 15–30 days under standard conditions (77°F / 25°C), significantly reducing the cure time compared to conventional emulsions or solvent-based coatings, which may require up to six months.

MIXING

Do not thin. Do not hand mix.

1. Start by mixing Part A (2.75 gallons) using a mechanical power mixer (e.g., 1/2" drill with an 8" mud mixer attachment). Mix thoroughly without drawing air into the material.
2. While continuing to mix Part A, slowly add the entire contents of Part B (0.25 gallons) to the pail.
3. Mix the combined components for 3 minutes to ensure complete blending. Use care to avoid whipping air into the mixture.

Note: Part A and Part B are pre-measured to the correct ratio. Do not estimate or alter proportions.

APPLICATION

Before application, confirm that the roof surface is completely dry - do not apply in wet or damp conditions. An infrared scan is strongly recommended to detect hidden moisture. Remove all wet insulation, dirt, and debris from the roof surface to ensure proper adhesion. Conduct an adhesion test to confirm substrate compatibility with Tuff-Flash Plus LO.

Repair Applications

Apply Tuff-Flash Plus LO over the affected area at a rate of approximately 1 gal./7 In. ft. (8" wide x 1/4" thick). Embed GarMesh® into the wet base coat, ensuring it is fully saturated and completely covered with an additional top coat of Tuff-Flash Plus LO—no reinforcement should remain exposed.

Liquid Flashing Details

For flashing details, begin by priming the designated area with Garla-Prime™ at a rate of 0.5 gal./100 sq. ft..

Apply Tuff-Flash Plus LO at 5–6 gallons per 100 sq. ft. (2.0–2.4 L/m²), embedding Grip Polyester Firm into the wet membrane across the entire detail area. Ensure full saturation and embedment of the reinforcement.

Feather out the perimeter edges to minimize stress on the membrane and reduce potential mineral loss.

Granule application: Apply immediately after Tuff-Flash Plus LO, ensuring granules are not broadcast onto uncoated surfaces.

Without granules: Apply a protective aluminizer or white reflective coating 15–30 days after the membrane has fully cured.

PRECAUTIONS

- Do not thin
- Do not hand mix
- Do not apply over wet surfaces
- Please read product label and SDS
- Material should be kept indoors while not in use
- Do not keep on the roof overnight
- Do not apply if there is a threat of rain or dew within 24 hours of application



Technical Data	Tuff-Flash Plus LO
Solids by Volume ASTM D2697	86%
Density (ASTM D 1475)	8.3 lbs./gal.
Elongation @ 77°F (25°C) ASTM D412	325%
Hardness, Shore A ASTM D2240 @ 77°F	55
Tensile Strength ASTM D412	650 psi
Tear Strength ASTM D624 (Die C)	115 lb./in.
Cure Time	2-4 hours
Pot Life	40 minutes
Service Temperature	-60°-180°F (-51.1°-82.2°C)
Coverage Rate	
Repair Material	1 gal./7 ln. ft. @ 8" wide x ¼" thick
Liquid Flashing	2 gals./100 sq. ft. w/ reinforcement (base coat) 3-4 gals./100 sq. ft. (top coat)
Packaging	Part A: 3-Gallon pail, 2.75 gallons Part B: 1-Gallon jug, filled 0.25 gallons
Shelf Life	12 months

Eco Facts	Tuff-Flash Plus LO
VOC	< 100 g/L

For specific recommendations and coverage rates, please contact your local Garland Representative or Garland Technical Service Department.

For more information, visit us at: www.garlandco.com

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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