

Technical Data

TRITOFLEX

Instant-setting liquid rubber membrane,
water-based and environmentally safe

Product Description

TRITOflex is a non-toxic, environmentally-friendly, two-component spray-applied roof and waterproofing membrane formulated with premium rubber polymers. It is a tough, yet extremely flexible material that can be efficiently sprayed to any thickness in a single pass. It creates a fully-adhered, monolithic waterproofing membrane with no waste. It is water-based with no VOC's and classified as a "green" product.

Product Versatility and Uses

TRITOflex is used as an instant-setting liquid membrane for new and retrofit roofing, below-grade waterproofing, plaza decks, interior and exterior walls, walking decks, steel, concrete, or wood beams, dams and ponds, fountains, and a wide range of specialty waterproofing applications. With its ability to withstand water indefinitely, TRITOflex is truly a unique waterproofing solution for the entire building envelope and beyond.

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PHYSICAL PROPERTIES (LIQUID FORM)

Color	Brown to black
Volatile Organic Compounds	Contains no solvents (no VOC's)
Shelf Life	12 Months
Packaging	50 gallon drums (190 liter)

PHYSICAL PROPERTIES (CURED FORM)

	TEST METHOD	TYPICAL VALUE
Color	-	Black
Membrane thickness	-	60 mils (1.5mm) is typical application
Resistance to Ponding	-	Withstands indefinitely
Foot Traffic, UV, Wind, Hail, Fire	FM 4470	Approved
Wind Uplift	FM 4470	1-990 (highest)
Hail Resistance	FM 4470	Severe Hail Rating
Elongation & Recovery	ASTM D412-97	1914% with 98% recovery
Fire	ASTM E108 FM 4470	Class A
Pull Off Strength (Plywood, EPDM, Cap Sheet)	ASTM D4541-09	Plywood 591 PSI; EPDM 734 PSI; Cap Sheet 729 PSI
Impact Resistance	ASTM D3746	Excellent, 0.5 Rating
Xenon exposure 1,000 hrs. (UV)	ASTM G155	Excellent, no changes
Peel adhesion to concrete & primed Built-Up Roof	ASTM D903	42 lbs.
Hydrostatic Pressure—Water Repellence	BS EN 12390-8	No penetration; 5 bar pressure
Water vapor transmission	ASTM E96	0.2 perms
Resistance to puncture	ASTM E154	Excellent
Low temperature flexibility	ASTM D5147	Passes at -20C
Potable water use	SANS 241	Approved



Application

EQUIPMENT TRITOflex is applied only through equipment manufactured by TRITON Inc. It cannot be sprayed through commercial grade sprayers without damage to the sprayer or to the product. The TRITOflex spray equipment supplies the product from liquid containers to the substrate through specially designed hoses and a pneumatically controlled spray gun. All hoses have separate valve controls and quick disconnects for complete control of the product at the point of applications. The product is pumped thorough a dual diaphragm pump with a 26 GPM fluid output and a 2.5 GPM operational output with a 300psi maximum.

PREPARATION All surfaces must be pressure washed clean, free of loose materials, grease, oils, release agents, and other contaminants. Any damaged areas of existing substrate should be properly patched or sealed with appropriate repair materials that will bond to the existing substrate and will allow TRITOflex to bond well to it. TRITOprime is used for asphaltic based substrates as well as for concrete and metal to create a superior bond with the TRITOflex membrane. An EPDM primer is used for EPDM substrates.

MEMBRANE TRITOflex can be sprayed at a rate of 1,400 square feet (130 m²) per hour to achieve a 60 mil (1.5 mm) monolithic membrane. Coverage may vary depending on the profile and texture of the substrate it is being applied to, but 17 square feet (1.6 m²) per gallon (3.78 liters) is typical for most substrates. It is best to begin spraying at the lowest side of the roof and work towards the higher points to prevent the accelerator from running over clean substrate areas prior to spraying over them. Although TRITOflex is UV stable and weather resistant, it is black in color so it is typically coated with an energy efficient white acrylic or ceramic coating also supplied by TRITON, Inc. TRITOflex is lightweight, at 6 oz./sq. ft., and can be applied directly over an existing roof system, eliminating the need for wasteful and costly tear-off.

MEMBRANE CURING Although the two-component product has instant-set properties and is cured to the touch immediately, typical full cure time of the membrane is 10-18 hours with sunny and warm, 50°F (10°C), weather conditions. It is best to apply TRITOflex in temperatures 50°F (10°C) and rising. Do not allow the freshly sprayed membrane to freeze prior to full cure time. Cure time is dependent on weather and temperature conditions as TRITOflex is a water-based product that requires drying time to fully cure.

Warnings and Hazards

A basic nose/mouth mask and goggles are recommended while spraying. Although minimal odor and mist exists while spraying, a respirator is recommended when spraying in areas of limited ventilation. Avoid eye contact with the product. Refer to MSDS for specific warning and product information. Ear plugs are recommended for the equipment pump operator.

Storage

Store liquid material in areas above 50°F (10°C) at all times. Protect from freezing in shipping and storage.