

Technical Data \

TRITOFLEX 2K

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

Product Description

TritoFlex 2K Instant-Set Rubber 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 is efficiently sprayed to any thickness in a single pass and instantly rain-ready. 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 2K is used as an instant-setting liquid membrane for roof restoration, roof replacement, below-grade waterproofing, plaza decks, interior and exterior walls, steel, concrete, or wood beams, and a wide range of corrosion control applications. With its ability to withstand water indefinitely, TritoFlex 2K is truly a unique waterproofing solution for the entire building envelope and beyond.

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PHYSICAL PROPERTIES (LIQUID FORM)		
Color	Black	
Volatile Organic Compounds	Contains no solvents (no VOC's)	
Shelf Life	12 Months	
Solid Content	63%	
Packaging	50 gallon drums (190 liters)	
PHYSICAL PROPERTIES (CURED FORM)	TEST METHOD	TYPICAL VALUE
Color	-	Black
Membrane thickness	-	80 mils (2 mm) dry is typical application
Resistance to Ponding	-	Withstands indefinitely
Wind Uplift	FM 4470	990 psf (highest)
Hail Resistance	FM 4470	Severe Hail Rating
Elongation & Recovery	ASTM D412	> 1000% 98% recovery
Tensile Strength	ASTM D412	575 psi
Fire Resistance	ASTM E108 FM 4470	Class A
Pull Off Strength (Plywood, EPDM, Cap Sheet)	ASTM D4541	Plywood 591 PSI; EPDM 734 PSI; Cap Sheet 729 PSI
Impact Resistance	ASTM D3746	Excellent, 0.5 Rating
UV exposure 1,000 hrs.	ASTM G155	Excellent, no changes
Adhesion to Concrete	ASTM D903	42 lbs.
Adhesion to Steel	ASTM D4541	1,300 psi
Hydrostatic Pressure—Water Repellence	BS EN 12390-8	No penetration; 5 bar pressure
Water vapor transmission	ASTM E96	0.1 U.S. Perms
Resistance to puncture	ASTM E154	Excellent
Low temperature flexibility	ASTM D5147	Passes at -20C
Potable water use	SANS 241	Approved



Application

EQUIPMENT TritoFlex 2K 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 2K instant-set 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 washed clean (i.e. pressure wash), 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 2K to bond well to it. Primers are required for certain substrates, such as EPDM or metal.

MEMBRANE TritoFlex 2K can be sprayed at a rate of 1,000 square feet (100 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 TritoFlex2K is UV stable and weather resistant, it is black in color. It is typically top coated with an energy efficient white acrylic or ceramic coating, also supplied by TRITON, Inc. TritoFlex 2K is lightweight, at 8 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 2K 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 2K 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.