

Technical Data \

# TRITOTHERM

## Acrylic and ceramic-based thermal protection coating

### Product Description

TRITOtherm is engineered as an advanced thermal protection coating that reflects UV rays and dramatically reduces heat transfer through it. TRITOtherm is uniquely formulated with air-encapsulated ceramic and glass particles suspended in an acrylic binder to provide premium protection at only 20 mils.

The TRITOtherm coating can provide thermal protection against heat absorption and premature degradation to underlying materials. Unlike other “cool roof” coatings or membranes which lose 90% of their energy efficiency once they’re dirty, TRITOtherm remains energy efficient by maintaining a positive thermal barrier to heat transfer.

TRITOtherm utilizes the common physics principles of reflectivity, conduction, emissivity, and absorption. Its microscopic particle structure reflects upwards of 92% of radiant heat gain from which it originated. Each nanoparticle encapsulates air, thereby blocking thermal transfer even when it becomes dirty. The surface temperature remains low even when exposed to the damaging effects of UV. TRITOtherm is non-toxic and lightweight and has excellent adhesion to most substrates. TRITOtherm is the premium choice for roof membrane protection and energy-cost savings.

### Product Uses

TRITOtherm can be employed not only in roofing applications for energy savings and membrane protection, but for coating interior and exterior walls, steel or wood beams, HVAC systems, and a wide range of specialty applications. TRITOtherm is a thermal protection coating solution for the entire building envelope and beyond. TRITOtherm can be applied by spray, roller, or brush.

### Installation


Surface preparation is generally limited to cleaning the substrate with water to provide a clean surface for TRITOtherm to adhere. The substrate must be dry before application. A primer coat may be required for some substrates. Please refer to manufacturers’ specific application instructions, limitations, and cautions.

#### PHYSICAL PROPERTIES (LIQUID FORM)

Color	White
Consistency	Thixotropic liquid
Packaging & Shelf Life	5 gal (20 L) buckets and 55 gal (190 L) drums with (1) year shelf life
Solids Content	62% solids by weight
Coverage	2 gal (7.5 L) per 100 sq. ft. (9.3 sm) for 20 mils (0.5mm) dry (installed in two coats)
Clean Up	Water

#### PHYSICAL PROPERTIES (CURED FORM) TYPICAL VALUE

Color	White
Coating thickness	20 mils (0.5 mm) dry is typical application
Elongation	350%
Fire Resistance	Excellent
Chemical Resistance	Mild acids, alkalis, & battery acids
Solar Reflectivity (ASTM C1549)	0.85
Thermal Emittance (ASTM C1371)	0.92

	<b>Solar Reflectance</b>	<b>Initial 0.85</b>	<b>Weathered Pending</b>
	<b>Thermal Emittance</b>	<b>0.92</b>	<b>Pending</b>
	Rated Product ID Number	0001	
	Licensed Seller ID Number	1178	
Classification	Production Line		
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</small>			
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			