



## **THERMO-SEAL® 1500M** **ULTRA STRENGTH SOLAR-REFLECTIVE DTM GLOSS PAINT**

**THERMO-SEAL® 1500M** is a high build, single component, 100% acrylic, water-borne technology incorporating exceptional dirt resistance, high-adhesion. It is a state-of-the-art, cross-linked, copolymer formula utilizing intrinsic, infrared solar-reflective pigment technology which is highly heat-reflective in direct sunlight. **THERMO-SEAL® 1500M** is a hard, glassy-finish thermoplastic engineered for sun-exposed metal and high exposure sloped and vertical surfaces of all kinds including architectural siding, metal and tile roofs, enclosures, doors, handrails and gates. Low and steep slope metal and tile roofs may also be dramatically improved with **THERMO-SEAL® 1500M** paint. Unsurpassed resistance to dirt and damage due to exceptional surface hardness coupled with alkaline friendly, acid resistant, molecular-level adhesion (cross-linking bonding) yields longer term wear characteristics exceeding existing standards. Excellent gloss retention and good chemical resistance. As a repaint/maintenance solution, or new construction coating, two finish coats is standard application over primer. New or rusty metal surfaces require METAL PRIMER 490 prior to 1500M application. Waterproofing occurs at specified millage and exceeds original design specifications in a majority of cases providing exceptional durability. It is a low-fading, high-performance topcoat solution designed for key metal surfaces that need to stay cooler and last longer.

At this time, **THERMO-SEAL® 1500M** will meet energy efficiency specifications of .50 Solar Reflectance (SR) or higher. Lighter colors can be formulated to .80 SR (80%) will reach efficiencies of up to **THERMO-SEAL® 1500M**. It has high Thermal Emissivity in all colors and as such it meets USGBC LEED Credits for energy efficiency, innovation and low-VOC finishes for high performance exterior design credits. This product contains absolutely no plasticizers, soaps or ethylene glycol. Made in USA.

*Depending upon substrate condition, full METAL PRIMER 490, CLEAR MASONRY SEALER 990, or a Bonding Primer may be required. Inquire with manufacturer in advance to determine correct application procedure. Warranty work must be performed by a contractor who is an Approved Applicator.*

## **THERMO-SEAL® 1500-M Properties (all colors):**

Solids by Volume	39.5%
Solids by Weight	49.0%
Hardness	92.1 Duro
Weight	9.7 lbs/gal
V.O.C.	<190 g/L
Hiding	97.3%
Sheen	Gloss
Clean-up:	Soap and water

Yield: Applied at 575 sq feet per gallon = 1.0\* mils DFT (theoretical)  
Applied at 250-300 sq ft per gallon = 2.0\* mils DFT (theoretical)

Recommend Thickness: 2 to 3 coats/ minimum 4 mils DFT.

Temperature Limits (application): 60 - 90 F. degrees ambient.

Drying Time (At 77 F. degrees/50% relative humidity):

To handle: 1/2 hour

To Recoat: 1 hour

Shelf Life: One year from date of manufacturing

**\*Theoretical Yield does not take into account application losses, thickness variations in application, weather or temperature contingent performance.**

## **THERMO-SEAL® 1500M color dependent values**

Solar Reflectance (range) 39-84%\*\*

Thermal Emissivity (range) 87-93%\*\*

**\*\*Color dependant. Highest values are for color white.**

## **The following tests have been satisfactorily Passed for this product**

ASTM 6083 - weathering/ performance series

ASTM G26 - accelerated weathering

ASTM D 358 - water resistance

Federal Spec TTC - 555B wind driven rain

ASTM E96 - water vapor transmission

ASTM G21 - fungi resistance

Shore A - hardness

ASTM E903 - solar reflectance

## **Limitations and Precautions**

Do not apply when ambient temperature is below 50 F. degrees or above 90 F. degrees. Cold temperature and/or high humidity will retard drying and may denature product. Store in tightly closed container and protect from freezing. Freezing of unopened product will cause denaturing. Shelf life is approximately 1 year. Not intended as a vapor or fire barrier. Not intended to provide waterproofing to entire roof system.

Warranty Disclaimer: Liability is limited strictly to replacement of product. Our data is based on information from laboratory tests that are believed to be accurate. All recommendations made without warranty and liability is limited to provable claims of defective product only. No liability or responsibility for product relative to coverage, performance or injury, loss, or damage is assumed.

The Ultimate Coatings Company LLC

[www.ultimatecoatings.net](http://www.ultimatecoatings.net)

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