

# Trem-Lar® LRM

## One-Part Liquid Applied Elastomeric Roofing Membrane

### FEATURES

Cold applied

One-part

One coat application

Low modulus/ High elongation/

High recovery

### BENEFITS

- Can be used in difficult access areas
- No hot kettles
- No mixing or special equipment needed
- Labor savings
- Accommodates typical movement

### DESCRIPTION

Trem-Lar LRM is a single component, bitumen modified moisture curing polyurethane liquid applied roofing membrane. The product is available in two grades. Trem-Lar LRM-H for flat or horizontal applications and Trem-Lar LRM-V for vertical applications.

### BASIC USES

Trem-Lar LRM is designed as the waterproofing membrane in a fully adhered protected membrane roof system for structural concrete decks and can be used as an adhesive in conjunction with TRA membrane.

### COLOR

Black

### GRADE

Horizontal areas: Squeegee (Trem-Lar LRM-H)  
Vertical surfaces: Trowel (Trem-Lar LRM-V)  
12 months shelf life in unopened containers when properly stored.

### PACKAGING

5 gallon (18.9L) pails

### STORAGE

Up to 12 months in unopened container.

### APPLICATION

**Conditions:** Do not begin work during rainy or inclement weather or when such weather is imminent. Rainfall will damage freshly applied material. Minimum recommended ambient air temperature during application: 40°F (4°C) and rising. Maximum allowed surface temperature during application: 110°F (43°C).

#### SURFACE PREPARATION:

**Concrete:** Surface shall be dry, free of dust, oil, bitumen, curing agents, form release agents, and other contaminants. Compressive strength: 2,500 psi (17 237 kPa), minimum. The concrete shall have a light steel trowel finish followed by a natural hairbrush to render a uniform granular texture. New concrete must cure 28 days minimum by either water, burlap or polyethylene cure methods.

**Sandblast, shotblast, or scarify existing concrete to assure the substrate is free of contamination and it has the proper surface texture to assure adhesion of the Trem-Lar LRM.**

**Verify the dry condition of the concrete with a rubber mat test. After taping the mat to the concrete for at least 24 hours, no liquid water droplets should be present on the underside of the mat. A valid test requires the concrete be warmed by the sun during the test.**

**Metal:** Clean metal surfaces of paint, oils, rust, and other contaminants.

#### DETAIL /PREPARATORY WORK:

**Priming for Detail Course:** Prime concrete detail areas with AlphaGuard C-Prime prior to application of Trem-Lar LRM. Allow primer to fully dry prior to application of Trem-Lar LRM.

**Vertical penetrations:** Provide a 1" x 1" (25 x 25mm) cant of Trem-Lar LRM-V at

## APPLICATION CONTINUED

## COVERAGE RATES

## CURE TIMES

## CLEAN UP

## LIMITATIONS

# Trem-Lar<sup>®</sup> LRM

parapet walls, columns, stacks, etc. Install Trem-Lar LRM as a flashing to the specified height. Extend flashing 6" (150mm) onto horizontal surface. Coating thickness: 60 mils (1.5mm) (wet).

**Cracks of 1/16" (1.6mm) or less:** Pretreat shrinkage and nonmoving structural cracks with Trem-Lar LRM applied at a thickness of 60 mils (1.5mm) (wet) 3" (75mm) either side of the crack.

**Cracks of 1/16" (1.6mm) or greater:** Rout all cracks, moving structural joints, and cold joints to 1/4" wide x 1/2" (6.3 x 12.7mm) deep. Insert a 3/8" (9.5mm) closed-cell polyethylene backer rod. Recess backer rod 1/8" (3.2mm) from surface. Fill recess with Trem-Lar LRM applied at a thickness of 60 mils (1.5mm) (wet) 3" (75mm) either side of the crack/joint. Proper treatment of expansion joints is critical. Consult your local Tremco Representative for recommendations.

### APPLICATION:

**Priming Concrete/Masonry:** Prime all concrete and vertical masonry with AlphaGuard C-Prime. AlphaGuard C-Prime must dry tack free (6 to 8 hours at 75°F (24°C) and 50% R.H.) prior to application of Trem-Lar LRM. Open time of AlphaGuard C-Prime is 72 hours after tack free cure. Trem-Lar LRM must be applied within the open time. If open time is exceeded, substrate must first be mechanically abraded, then reprimed.

Alternately, prime concrete substrates with Trem-Lar LRM-H thinned with toluene at a rate of 32 oz. toluene per gallon of Trem-Lar LRM-H. Apply the thinned Trem-Lar LRM-H to the clean, dry surface at a coverage rate of 1 gal/SQ (0.4 L/m<sup>2</sup>). Allow to dry 1 hour minimum and apply the specified coverage of Trem-Lar LRM-H (must be applied the same day).

**Priming Trem-Lar LRM:** If Trem-Lar LRM has been applied and cured in excess of 48 hours and an additional coat of Trem-Lar LRM must be applied, prime the existing Trem-Lar LRM with GeoGard Primer. Apply Trem-Lar LRM while GeoGard Primer is tacky.

**Application:** Apply Trem-Lar LRM-H directly to surface by squeegee and cross-roll with a long nap roller to a uniform thickness. Overlap previous day's work 6" (150mm) minimum.

**Water Test:** Allow membrane to cure 36 hours minimum (75°F (24°C) @ 60% RH). Longer cure times will be required at lower temperatures and/or humidities. Prior to placement of protective surfacing, water test applied area. Block drains and provide perimeter dams. Flood test area with water for 48 hours. Do not exceed deck design load requirements during water testing.

25 ft<sup>2</sup>/gal. (0.6m<sup>2</sup>/L) per coat maximum.

24 hours at 75°F (24°C), 50% RH. Longer cure times will result at lower temperatures and/or lower relative humidity.

Use Xylene or Toluene to remove Trem-Lar LRM from equipment before cure.

- Not intended for twin-slab, precast, or lightweight concrete.
- Not for use as a traffic-bearing surface.
- Trem-Lar LRM requires acceptable protective surfacing such as insulation with ballast, pavers, reflective and protective coatings, decorative surfaces, and protective covers.
- Concrete substrates must be free of all traces of bitumen prior to application of Trem-Lar LRM.



## PHYSICAL PROPERTIES

## MAINTENANCE

## PRECAUTIONS

## TECHNICAL SUPPORT

# Trem-Lar® LRM

PROPERTY	TYPICAL VALUE/GRADE		TEST METHOD
	HORIZONTAL	VERTICAL	
Density	@ 77°F (25°C) 8.8 lb/gal (1052g/L)	9.1 lb/gal (1088g/L)	ASTM D 70-82 (1986)
Flash point	>100°F (>38°C)	>100°F (>38°C)	ASTM D 3278-82
Hardness (Shore A)	25	38	ASTM D 2240-86
Hardness (Shore OO)	80 - 95	85 - 90	ASTM C 836-89
Low temperature elongation	@ -20°F (-29°C) >500%	>500%	ASTM D 412-92
Nonvolatile content	87%	81%	ASTM D 2369-87
Recovery from 350% elongation	95%	90%	ASTM D 412-92
Service temperature (continuous ambient)	-40°F to -150°F	40°F to 150°F	ASTM D 412-92
	(-40°C to 66°C)	(-40°C to 66°C)	
Ultimate elongation	950%	700%	ASTM D 412-92
Ultimate tensile strength	300psi (21 kg/cm <sup>2</sup> )	250 psi (17.5 kg/cm <sup>2</sup> )	ASTM D 412-92
Viscosity @ 77°F (25°C)	7,000 - 12,000 cP	30,000 - 50,000 cP	ASTM D 2196-86
	(7-12Pa•s)	(30-50Pa•s)	
Volatile organic compound (less water, less exempt solvents)	110 g/L	110 g/L	ASTM D3960-89
Water vapor permeance 0.13 metric perms* 0.26 metric perms*			ASTM E 96-80

\*Metric perms = (g/m<sup>2</sup>)•(24h)•(mm Hg)

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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