

TRA-LRM

A Cold Applied, Single Ply Roof System with Dual Waterproofing Defense

Composition:

The TRA-LRM membrane combines a reinforced rubber sheet with an elastomeric waterproofing adhesive for dual protection. TRA-LRM combine the advantages of a proprietary tough reinforced (EPDM/SBR) rubber sheet with Tremlar LRM, a cold-applied, bitumen modified, moisture curing poly urethane elastomer used to adhere the seam to the TRA sheet.

Basic Use:

TRA-LRM is designed to be used in new or replacement protected membrane applications where a cold-applied, lower-odour system is desired. It is ideal for application on Health care facilities, schools, difficult access areas and in Garden roofing.

Good Roofing Practice:

- Membrane designed for use in protected membrane assemblies only.
- Do not install over rough or wet substrates.
- Allow to cure, then install polyethylene strips over seams prior to placing insulation.
- Do not apply light or white coloured coatings or adhesives directly to the surface of TRA-LRM as they will stain and discolour. A stain blocking coating, such as Double Duty Aluminum LV, is recommended when a reflective coating is required. For further details, contact Technical Services

System Limitations:

- Do not apply membrane at temperatures below 4.4°C (40°F).

- Do not install over uncoated fibreboard or foam insulations.
- Do not install near grease or oil.

Packaging:

Rolls of TRA: 1.5 m (5 ft) x 30.5 m (100 ft)
Tremlar-LRM: 18.9 L (5 gal) pails

Drainage:

Excessive ponding conditions can adversely affect the performance of any roofing system. Where positive drainage does not exist, water removal from the roof surface must be facilitated by lowering sumps, tapering insulation or adding drains.

Precautions:

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

Vapour/Air Barrier:

Where specified, ensure proper design and installation. Contact your Tremco representative for detailed recommendations.

Structural Integrity of Decks:

The deck must be properly designed and constructed to support and secure the TRA-LRM roofing systems.

Insulation:

Extruded polystyrene insulation, when specified, is to be loosely laid over a fully cured TRA-LRM membrane.

General Installation Information:

See applicable instructions for detailed information on new roofing and reroofing for various deck types. Field application and flashing techniques are critical in securing a watertight roof. Application instructions must be followed exactly. There is no substitute for good workmanship by experienced, trained applicators. Follow the specific, detailed instructions for the specific application.

Do not substitute materials. If questions arise, contact your Tremco representative.

Product Advantages	
Features	Benefits
Fully adhered	• Reduces potential for leaks
Cold-applied	• Can be used in difficult access areas
Highly elastomeric (even at -29°C)	• Easily accommodates standard structural movement
Waterproofing redundancy	• Double protection for longer service life

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Installation:

1. Plan the placement of TRA sheeting to facilitate the fabrication of the least number of seams, and ensure that as water drains from the roof area it will run over or along, but not against shingle lap seams. Starting at the area's lowest level, position the uppermost sheet to overlap the adjacent sheet by 100mm (4").

2. Apply Tremlar LRM (horizontal) by notched squeegee to the substrate at the minimum rate of 1.2sqm/litre (2gal/sq). Immediately roll the TRA into the Tremlar ensuring the sheet is fully adhered without wrinkles, blisters or fish-mouths.

3. Apply Tremlar over the 100mm (4") lap of the first sheet and out onto the substrate for the second sheet. Install the second sheet. Apply Tremlar LRM (vertical), reinforced with Burmesh, over all laps such that the reinforced Tremlar extends 50-75 mm (2-3") on either side of the leading edge..

4. Install the third and succeeding rolls as outlined above.

5. Detail all flashings as outlined in the job specifications, using TRA and Tremlar LRM (vertical) .

6. Allow Tremlar to cure prior to installing surfacing.

Surfacing:

Install 300mm (12") strips of polyethylene on the cured overpours of the installed TRA. Then place the specified thickness of extruded polystyrene insulation, woven polyolefin scrim fabric and ballast at the minimum rate of 49kg/sqm (1000 lb/square).

Garden Roofing: Consult with a Tremco Representative regarding information on the various layers required for the desired garden roof assembly.

Technical Services:

Your local Tremco representative and the Tremco Engineering Services Department provide problem analysis and assistance in developing recommendations for special applications. On-site instruction can generally be provided at a nominal charge. Their services are complemented and extended by Tremco's Research and Development Laboratory, which has earned a unique reputation in weather-proofing technology.

Statement of Policy and Responsibility:

Tremco takes responsibility for the furnishing of quality roofing materials and providing specifications and recommendations for their proper installation. Tremco does not, either itself or its representatives, practice architecture or struc-

Physical Performance Characteristics

TRA-LRM

Property	Typical Value	Test Method
TRA		
Breaking Strength	MD 1446N XMD 1288N	37GP52 (min 500N)
Tear Strength	MD 313N XMD	37GP52 (min 35N) 348N
Low Temperature Flexibility@ -40	No cracks	37GP52
Dynamic Impact 23°C	Pass (3)	37GP52
-10°C	Pass (3)	
Water Absorption	2.5%	37GP52 (max 5%)
Heat Aging (10d@120°C)	MD 1508N XMD 1574N	37GP52 (min 80% Break Str retained)
Accelerated Aging	Pass	Xenon Arc-1000hr (Min 90% Break Str retained)
Ozone Resistance	No cracks	37GP52
Tremlar LRM		
Elongation	950%	ASTM D412-92
Tensile Strength (300psi)	2068Kpa	ASTM D412-92
Water Vapour Permeance perms	0.13metric	ASTM E96-80
Low Temp Elong @-29°C	>500%	ASTM D412-92
%Non-Volatiles	87	ASTM D2369-87

tural engineering. Tremco offers no opinion on and expressly disclaims any responsibility for the structural soundness of any roof deck on which its products may be applied. The opinions of competent structural engineers should be obtained as to the structural soundness of the roof deck or its ability to properly support the contemplated roof installation. Tremco accepts no liability for any failure of the roof deck or resultant damages, and no Tremco representative is authorized to vary this disclaimer.

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