

TECHNO RUBBER EPDM ROOFING SYSTEMS

- **PROVEN**
- **ECO-FRIENDLY**
- **LONG LIFE**



TECHNO RUBBER COMPANY LIMITED

BENEFITS OF TECHNO RUBBER EPDM ROOFING SYSTEM



SUPERIOR DURABILITY

- Exhibits outstanding resistance to UV radiation, ozone and weathering.
- Offers excellent low-temperature properties and longer service life



HIGH FLEXIBILITY AND ELONGATION IN ANY CLIMATE

- Easily contours to unusual roof shapes
- Elongates to over 300% of original dimensions, exhibiting outstanding thermal expansion and contraction characteristics



RAPID AND EASY INSTALLATION

- Available in widths from 1.5 mtr to 6 mtr and lengths up to 30 mtrs.
- Requires fewer seams and less installation time compared to other single-ply membranes



SUSTAINABLE AND ENVIRONMENTAL FRIENDLY

- Limited environmental impact during manufacturing and use.



LOWEST LIFE CYCLE COST

- Little or no maintenance required
- 35+ years of proven service life of membrane one of the lowest roof life cycle costs





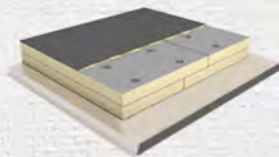
TECHNO RUBBER EPDM ROOFING MEMBRANE

With more than 12 years in EPDM roofing, Techno Rubber Company Limited has a proven track record of manufacturing products with **superior durability, flexibility** and **UV resistance**. Techno Rubber's synthetic rubber compound is the foundation for Techno Rubber EPDM Roofing Membrane. Techno Rubber EPDM Roofing Membrane, the Industry's premium-grade EPDM roofing membrane.

From office buildings and distribution warehouses to hospitals and schools, Techno Rubber EPDM Roofing system delivers **outstanding, long-lasting performance** in all climates worldwide.

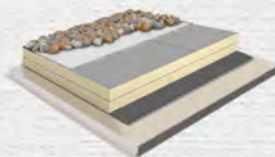
TECHNO RUBBER EPDM ROOFING SYSTEM OPTIONS

Fully Adhered System



- Popular choice for new construction & re-roofing.
- Ideal where ease of inspection and maintenance are important.
- Can be installed on high slope roofs (e.g., barrels and vaults)

Inverted System



- The system is a variation of the conventional ballasted system.
- The EPDM Sheets are loose laid over and acceptable substrate and covered by the thermal insulation and held in place by ballasts.
- The Roofing membrane is protected from surface damage and severe weather conditions.

Ballasted System



- Features large roofing panels (up to 60mtr x 30mtr) covered with pavers or smooth, washed stone.
- Fast coverage and economical installation.
- Ideal for stores, offices and warehouses.
- Aesthetically pleasing appearance

Mechanically Attached System



- Accommodates a wide variety of roof configurations.
- Popular choice for re-roofing
- Can be designed to meet special requirements by increasing wind uplift resistance.

SEAM TAPE TECHNOLOGY

The Seam Tape system is the most advanced method of field seaming EPDM membrane. Contractors appreciate that Seam Tape can be applied faster than other seaming methods. While specifiers recognize the performance, environmental and quality control advantages. In UL-observed tests. Seam Tape products exhibited twice the seam strength of conventional splice adhesive. Seam Tape is compatible with all TechnoRubber EPDM roofing membranes.

The self-adhering technology of uncured Flashing was developed for both curbs and parapets in association with TechnoRubber EPDM roofing membrane laminated to seam tape.

- *Easier and faster installation which can significantly reduce labor costs.*
- *Reduces VOCs on the jobsite.*
- *Tested and proven quality and reliability.*

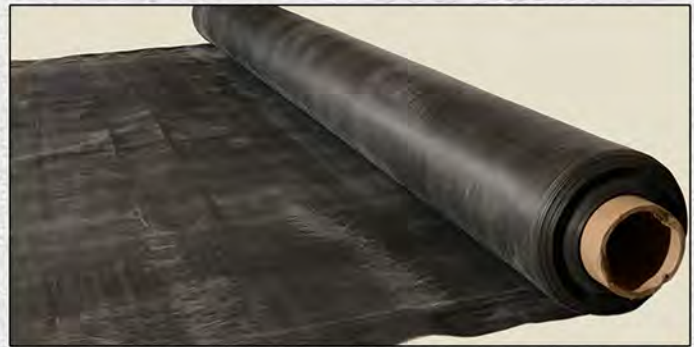
EPDM WATER PROOFING SYSTEM COMPONENTS

TR EPDM WATER PROOFING MEMBRANE

TR-EPDM Membrane is a cured synthetic rubber sheet with base polymer Ethylene Propylene Diene Monomer (EPDM) compounded with other specialty additives. The compounded stock is calendared to sheet form and vulcanized.

The exceptional characteristics of resistance to ozone and temperature shocks, ease of application and maintenance etc. made it the best Waterproofing Membrane available to cope with the performance demands of the scorching desert climate of the Arabian Gulf.

TechnoRubber EPDM membranes are manufactured as per ASTM D-4637 specification for EPDM single ply roofing membrane.



EPDM PLAIN – available in width up to 6mtr and thickness 1mm to 3mm, this membrane is designed for low slope applications and offers increased fire resistance.

EPDM REINFORCED – for roofs with frequent service demands, TechnoRubber EPDM membrane is available in widths of up to 3 mtr and thickness of up to 2mm. This membrane is reinforced to combat roof tears and punctures and provides superior resistance to wind forces.

EPDM WATER PROOFING SYSTEM COMPONENTS

SINGLE PLY HIGH TACK PRIMER (SPP-38HT)

Single-Ply Primer (SPP-38HT) is a rubber polymer based roofing primer. Unlike thin primers that run and puddle, the high viscosity formulation promotes uniform coverage on both horizontal and vertical surfaces. Single-Ply Primer does not react with atmospheric moisture allowing it to be opened and resealed for use at a later date.

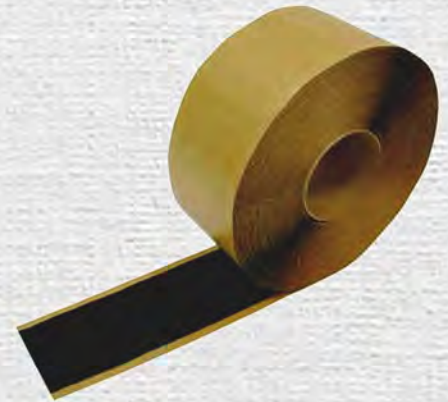
Single-Ply Primer (SPP-38HT) is used to prime EPDM roofing membrane to provide improved adhesion to the TechnoRubber EPDM Seam tapes, laminates, and sealants. Single-Ply Primer (SPP-38HT) is an excellent choice for priming concrete, OSB, plywood, metal surfaces and other acceptable substrates.



EPDM SEAM TAPES 3" & 6" (ST-3 & ST-6)

EPDM Seam Tape is a black, vulcanized rubber, pressure sensitive adhesive tape designed to provide high strength, watertight seams for single ply EPDM roofing membranes.

EPDM Seam Tape is soft and tacky providing a quick grab onto EPDM field membranes, yet possesses high initial strength. EPDM Seam Tape exhibits excellent adhesion to most substrates including glass, metals, wood, concrete, masonry and some plastics. It is designed for field splicing of EPDM membranes.



UNCURED EPDM FLASHING TAPE (EF-150 SA)

Uncured EPDM Flashing Tape (EF150 SA) consists of an uncured EPDM membrane that has been laminated to a 25 mil EPDM based pressure sensitive tape. The tape is comprised of a vulcanized rubber adhesive that will provide OEM quality performance for EPDM single-ply restoration projects. EPDM Flashing Tape is extremely flexible and can be formed to fit irregular shapes and surfaces. Due to the exceptional strength of the vulcanized rubber adhesive, EPDM Flashing Tape will not shrink, bridge or delaminate due to stress or movement in the roofing system.



EPDM WATER PROOFING SYSTEM COMPONENTS

LAP SEALANT (LA-60)

Lap Sealant (LA-60) is a specially formulated high solids, low VOC, EPDM based sealant designed to seal the exposed edges of EPDM membrane splices. The sealant has excellent adhesion to EPDM membranes.

Lap Sealant (LA-60) is designed to seal the exposed edges of EPDM membrane roof system splices, T-joints, step downs, tie-ins, termination bars, and general flashing details.



BONDING ADHESIVE (BA-25)

TECHNORUBBER Bonding Adhesive is a synthetic rubber based adhesive designed for bonding EPDM membrane to wood, metal, masonry and other acceptable substrates.

Easy to spread. cover 2.5m² per liter according to the substrate. The adhesive must be applied at a uniform rate to both the membrane and the roof substrate.



SPLICE ADHESIVE (SA-28)

Splice Adhesive is designed for field splicing of EPDM membrane panels and is used as solid adhesive on metal substrate as described in the Techno Rubber Specifications.

A uniform application is required to avoid mixed results. Thinning of the adhesive should not be done. Coverage rate for a standard splice width of 100mm. is 25 l/m per liter of mixed adhesive.



SPLICE CLEANER (SC-100)

Splice cleaner is a solvent based thin liquid used to clean and prepare Techno Rubber EPDM single ply membranes to receive the adhesives where required by Techno Rubber Specifications and details.





TECHNO RUBBER EPDM MEMBRANES

60 YEARS OF HIGH PERFORMANCE
 LOWER GLOBAL WARMING POTENTIAL, SUSTAINABLE, RECYCLABLE

EPDM PERFORMANCE - GLOBAL WARMING POTENTIAL

EPDM significantly outperforms comparable roofing systems related to long-term environmental impact. A study of low slope roofing membranes conducted on behalf of the EPDM Roofing Association (ERA) by the GreenTeam, Inc. featured a life-cycle assessment of EPDM, TPO, PVC and SBS Modified Bitumen membranes. The study showed 60mil fully adhered EPDM membrane had the lowest global warming potential (GWP) and other membranes, such as PVC, would have to perform over three times longer to have an equivalent global warming potential as EPDM. See chart below:

ROLE OF SERVICE LIFE

	MEMBRANE THICKNESS	SYSTEM	GLOBAL WARMING POTENTIAL (Kg. CO ²)	MIN. SERVICE LIFE TO ACHIEVE EQUIVALENCY*
EPDM	60-mil White	Adhered	22.4	15 Years
	60-mil Black		29.6	19.8 Years
TPO	60-mil White	Adhered	30	20.7 Years
PVC	60-mil White	Adhered	73.1	49 Years
SBS	140-mil (Unsurfaced)	Adhered	81.8	54.8 Years

* Using a comparative service life of 15 years for the lowest GWP system

EPDM -RENEWABLE AND RECYCLABLE

EPDM rubber is one of the world's most recyclable low slope roofing products. Since 2006, almost 11 million square feet of EPDM has been removed, transported and recycled from buildings all across North America and Canada, creating new and usable products such as rubber matting and artificial turf. With the reroofing market currently driving the low slope roofing business for installers, roofing contractors are doing most of the recycling work. Today, more and more architects are writing a recycling process into their new roof specifications. Specifiers and facility managers also will see roof recycling as an absolute necessity in the years to come, due to a growing number of codes that incorporate sustainability requirements.

COMPARATIVE PROPERTIES OF EPDM ROOFING MEMBRANE AGAINST OTHER ROOFING SYSTEM

PROPERTIES	EPDM ROOFING	PVC ROOFING	MODIFIED BITUMEN ROOFING	BURN ROOFING (BITUMINOUS BUILT UP ROOFING)
Dimensional Stability	Excellent	Poor / Fair	Fair	Fair
High Temperature Resistance	Excellent	Good	Fair	Fair
Ozone Resistance	Excellent	Excellent	Fair	Fair
UV Resistance	Excellent	Poor / Fair	Fair	Good
Cold Crack Resistance	Excellent	Fair / Good	Fair	Poor
Resistance to Plasticizer Migration	Excellent	Fair / Good	Not Applicable	Not Applicable
Install Over Existing Roof	Yes	Yes	Yes	No



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APPROVED VENDOR FOR:



VENDOR ID: 10031970



VENDOR ID: 0000506985



VENDOR ID: 2003612



VENDOR ID: 8242

