



ARDEX WPM 612

TPO Roofing Membrane

Eco Friendly Membrane – Heat reflective and energy efficient roof membrane

No toxic emissions – No plasticisers or chlorinated ingredients

Lightweight Membrane – Offering a high variety of installation options for low slope roofing applications

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DESCRIPTION

ARDEX WPM 612 TPO is a flexible Thermoplastic PolyOlefin roofing membrane made from the incorporation of a ethylene propylene rubber into a polypropylene matrix and produced with a polyester weft inserted reinforcement.

CHARACTERISTICS

Physical

- Excellent durability and tear and puncture resistance
- High chemical, (micro)bacterial, UV and weathering resistance
- No plasticisers or chlorinated ingredients
- Avoid contact with oil and petroleum based products, grease and hot bitumen

Technical

Property	Test Method	Typical Value
Watertightness	EN 1928 (A)	pass
Tensile strength (both directions)	EN 12311-2	≥ 800 MPa
Elongation at reinforcement break	EN 12311-2	≥ 20%
Resistance to static loading (EPS & concrete)	EN 12730 (B)	≥ 25 kg
Resistance to impact (EPS & concrete)	EN 12691	≥ 10 mm
Tear resistance L / T	EN 12310-2	≥ 400 / 400 N
Joint peel resistance	EN 12316-2	≥ 100 N/50 mm
Joint shear resistance	EN 12317-2	≥ 800 N/50 mm
UV exposure	EN 1297	pass
Foldability at low temperature	EN 495-5	≥ -45 °C
External fire performance	EN 13501-5	BROOF(t1)
Reaction to fire	EN 13501-1	E
Root resistance	prEN 13948	pass

Note: For latest updates and additional info, please consult our website at www.ardex.com. Testing results and/or copies of Approval Documents for above mentioned membranes are available upon request.

PREPARATION

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide shall be properly filled with an acceptable fill material.

APPLICATION

Place the TPO as close as possible to its final position. Inspect the wrapper and TPO roll for damage before and during the installation. Unroll the TPO membrane and prior to any attachment, cutting or welding, allow each panel to relax a minimum of 30 minutes. Cut a cross-shaped opening above every drain to evacuate excess ponding water, in case of sudden rainfall.

The TPO panels shall be installed in a fashion so that field and flashing splices are installed to shed water. Straight cuts are very important for a neat and easy application.

Allow ample material for splicing determined by the type of seam and tie-ins.

Temporary ballasting during installation may be required to keep the membrane in place until it is secured to the substrate. Suggested temporary ballasting includes sand bags and other non-abrasive materials such as rubber tires, etc. Never leave the project without temporary ballasting loose laid sheets.

COVERAGE

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (75 mm for standard seams – 150 mm for seams with mechanical anchoring in the seam) and upstands. Provide an additional length (150 mm) at upstands for easy manipulation.

PACKAGING/STORAGE/SHELF LIFE

Thickness (mm)	1.14
Width (m)	1.52
Length (m)	30.5
Weight (kg/m ²)	1.14

Storage: Store away from sources of puncture and physical damage. Store away from ignition sources and open flame.

Shelf Life: Unlimited.

PRECAUTIONS

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

Contact ARDEX Technical Services Department for specific recommendations regarding chemical or waste product compatibility with ARDEX WPM 612 TPO Membrane.

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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