

Talrak® Flexeal TPO Membrane

Single ply, high performance, heat weldable, Thermoplastic Polyolefin (TPO) waterproofing membrane



The Construction Alchemists

Description

Talrak® Flexeal TPO Membrane (Thermoplastic Polyolefin Flexible Polypropylene Alloy) is produced by extrusion of granules resulting from the incorporation of ethylene propylene rubber into a polypropylene matrix together with other additives as appropriate to the type of membrane. It provides a continuous, seamless waterproof membrane system for building and civil engineering structures.

Features and Benefits

- Environment friendly, no VOC, no plasticisers, non toxic
- Cold applied
- High resistance to weathering and UV
- Resistance to root penetration
- Fast application
- Welded joints for maximum water-tightness
- Excellent long term performance
- Approved for use in contact with potable water

Primary Applications

Talrak® Flexeal TPO Membrane is used for waterproofing of:

- Building and civil engineering structures that include: podiums, parking decks, flat roofs, garden roofs etc.,
- Basements and foundations (below ground application), retaining walls (positive side application)
- Lining ponds, canals, reservoirs and landfills

Technical Properties

Nominal thickness (EN 1849-2)	1.2mm ±10%	1.5mm ±10%
Standard colours	Grey/white	Grey/white
Weight per unit area (EN1849-2)	1.23 kg/m ² ±10%	1.45 kg/m ² ±10%
Tensile strength (ASTM D412 and EN 12311-2) longitudinal	17N/mm ²	17N/mm ²
Elongation at break (ASTM D412 and EN 12311-2) longitudinal	>650 %	>730%
Puncture Resistance (EN1269/B-dynamic)	Pass test >1000mm	Pass test >1200mm
Water Impermeability (EN 1928)	Pass test	Pass test

Water Vapour Transmission (ASTM 96)	Nil	Nil
Tear resistance (EN 12310-1) 1) Longitudinal 2) Transverse	540N 560N	540N 560N
Lap joint strength (EN 12317 and UEATc)	Pass test - Broken out joint	Pass test - Broken out joint
Durability Resistance UV (EN 1297)	Pass 2500 hours - no cracks	Pass 2500 hours - no cracks
Hail resistance (EN 13583)	>26 m/s	>26 m/s
Resistance to Micro-organism (EN 846)	Pass test - Level 2	Pass test - Level 2
Suitable for use in contact with Portable Water (BS6920)	Pass test	Pass test

Application Instructions

Surface Preparation

The substrate should be sound enough to hold the waterproof membrane and should be free from bond breaking materials such as free water, mould oil, grease, laitance, curing aids, dust etc., Grit blasting, wire brushing, grinding etc., are recommended for surface preparation. Any damaged areas, surface irregularities, slope corrections etc., shall be repaired using Talrak® range of patch repair mortars.

Installation

"Refer to the method statement provided by Talrak for TPO membrane installation details."

Termination of TPO Membrane: The membranes are terminated at the ends to any up-stands/walls using aluminium termination bars which are fixed using screws at every 250mm c/c spacing. The gap between the wall and termination bars should be sealed using single component polyurethane sealant **Talrakseal® PU** (refer separate datasheet).

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Estimating Packaging

Talrak® Flexeal TPO Membrane : 2m wide x 20m long rolls
Talrakseal® PU : 600ml sausage

Storage

Talrak® Flexeal TPO Membrane must be stored in a cool, dry place in the original unopened packaging. Store rolls horizontally, not more than one pallet height.

Precautions

Health & Safety Instructions

There are no health hazards associated with the use of Talrak® Flexeal TPO Membrane. For further information, please refer Material Safety Data Sheets for the above product.

Fire

Talrak® Flexeal TPO Membrane is non flammable.

Talrak



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
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Important note :

Talrak products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Talrak endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

Ref : TCC/TDS/WP07 - R2