

# Talrak® Flexeal PEP Membrane

Non-adhesive non-bituminous waterproofing membrane for floors and walls



The Construction Alchemists

## Description

Talrak® Flexeal PEP Membrane is a non-adhesive non-bituminous compound reinforced and protected on both sides with a non-woven polypropylene developed for the waterproofing of internal/external floors and walls. The waterproofing system consists of Talrak® Flexeal PEP Membrane sandwiched between Talrak® PEP adhesive.

## Features & Benefits

- Waterproof, anti-ageing and anti-cracking
- Non-toxic, no pollution and eco-friendly product
- Excellent adhesion to many surfaces, especially direct adhesion to cement material
- Thin, tough, flexible and impermeable multi-layered sheet with high tensile strength
- Compatible with common cement screeds and resistant to most common alkaline solutions
- It creates a separation layer between surface and floor/wall, reducing footfall noise and absorbing possible tensions and deformations

## Primary Application

Talrak® Flexeal PEP Membrane is used for the waterproofing of mineral substrates from positive side such as bathrooms, kitchens, terrace, toilets, swimming pools, below basements, retaining walls, below rafts, podiums, chejjas or wet areas with a risk of water infiltration etc., where a pavement or covering must be applied.

## Technical Properties

Thickness of membrane	1 mm
Tension @ Normal temperature @ 60°C	60 N/cm 30 N/cm
Pull lengthening @ Normal temperature @ -20°C	400 % 300 %
Break Tension	50 N
Water impermeability, 30 min, 0.3 MPa	No leaking
Cold bending	-20°C Flawless
Heating elongation Elongation Shrinkage	2 mm 4 mm
Hot air ageing (80°C x 168h) - Holding of tension strength at break Holding of pull lengthening at break	80% 70%
Alkali-proof (10%CaOH) <sub>2</sub> normal temperature x 168h) - Holding of tension strength at break Holding of pull lengthening at break	80% 80%

## Application Instructions

### Surface Preparation

The surface must be clean, sound and free from macro pores/voids. It must be free from bond breaking materials such as grease, wax, laitance, dust, pockets, cracks and ridges. Use suitable methods such as wire brushing, vacuuming, grinding, milling, shot blasting and water jetting to prepare the substrate dependent on its condition. Any damaged mineral surfaces should be repaired to sound condition with Rendercem range of repair mortars.

### Application

The substrate should be in saturated surface dry condition before the application of waterproofing system. The application of Talrak® Flexeal PEP waterproofing system shall be carried out only in ambient temperatures.

- Unroll the PEP membrane on the prepared substrate to position, orient and cut appropriately to the required length. Back roll the cut length and keep aside.
- Base layer of PEP adhesive – Apply Talrak® PEP adhesive, a dedicated cementitious adhesive for bonding of PEP membrane to the substrate on the prepared substrate to achieve uniform 2mm thick bed using trowel (for further details refer Talrak® PEP adhesive data sheet).
- Place Talrak® Flexeal PEP waterproofing membrane on the base adhesive firmly without entrapping air into it and also avoiding wrinkles. Proceed with placing the next membrane on the existing membrane by overlapping with the help of Talrak® PEP Adhesive for a minimum overlap width of 75mm at the joints of the membrane.
- Top layer of PEP adhesive – Apply Talrak® PEP Adhesive on the installed PEP membrane to achieve uniform 2mm thick bed using trowel. Ensure that the base adhesive is not affected during the application of top adhesive.
- Water curing is recommended before proceeding with any protection layers.

### Estimating Packaging

Talrak® PEP Adhesive is supplied in 25kg HDPE bags. Talrak® Flexeal PEP Membrane is available in rolls of 1.2 m x 100 m. Other lengths and thicknesses are also available on request.

### Consumption

Approximately 7.2 kg/sqm of Talrak® PEP Adhesive is required for the sandwiched installation of PEP waterproofing system to achieve a total 4mm thick adhesive. However, the coverage will depend upon the substrate condition and thickness of the material used.

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## Storage

Talrak® Flexeal PEP - The quality and characteristics of the product remains unaltered for a long time; nevertheless, it is better to use the product within 36 months. The product must be stored in a dry, covered environment at a temperature between +5°C and +40° C. Not affected by frost. Not UV stable.

## Precautions

### Health & Safety Instructions

There are no health hazards associated with the use of Talrak® Flexeal PEP Membrane. For further information, please refer Material Safety Data Sheet.

## Fire

Talrak® Flexeal PEP Membrane is flammable. Do not expose to naked flames or other sources of fire / sparks. Do not smoke while handling the material. PEP membrane should be properly wrapped when not in use. In the event of fire, extinguish with carbon dioxide or foam type extinguishers, do not use water.

## OPTIONAL

### Talrak® Flexeal PEP Waterproof Band for corner joints/coving

Talrak® Flexeal PEP Waterproof Band is a non-bituminous compound reinforced and protected on both sides with a non-woven polypropylene, for better bonding with the Talrak® PEP Adhesive. It is lightweight, flexible and resistant to decay, it ensures a uniform thickness of the sealing layer, it is resistant to cracking of the substrate, ensuring the sealing of the entire surface and reduces installation time.

It effectively protects the corners, edges, cracks, coving in the substrate. Its installation is recommended in all areas that require sealing. It binds with all tile laying systems and seals corner joints and covings, forming flexible and seamless durable connections at corners. It is primarily used in indoor and outdoor for walls and floors corner joints and covings. It is a 100% water proof, anti-ageing, ductile and crack bridging product.

It is available in length of 10 meters and width of 100mm/150mm/200mm/300mm.

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**Talrak Construction Chemicals Pvt. Ltd.**

An ISO 9001:2015 Certified Company

### Works:

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### Important note :

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Ref : TCC/TDS/WP06 - R2