

Talrak® Flexeal HP(S)

Flexible High-Density pre formed Polyethylene membrane



The Construction Alchemists

Description

Talrak® Flexeal HP(S) is a flexible High-Density pre formed Polyethylene (HDPE) membrane with pre-applied pressure sensitive adhesive. The reactive inorganic fine granule layer on the other side of the membrane acts as mechanical key for better bonding of overlays on the membranes for sandwiched Applications., Talrak® Flexeal HP(S) is supplied in thicknesses of 1.2 mm and 2.00 mm and can be supplied in other thicknesses on demand.

Features & Benefits

- Guaranteed uniform thickness
- Joints can be welded or glued
- High puncture resistant
- Chemical resistant
- UV resistant and root penetration resistant
- Durable
- Easy to apply

Primary Application

- Podiums of new buildings.
- Waterproofing of foundations with application below rafts and before placing reinforcements in building basements
- Underground Metro Stations
- Highway Construction
- Tunnels and Underpasses
- Retaining walls

Technical Properties

Nominal Thickness (mm)	1.2 (can be supplied in other thickness also on demand)
HDPE sheet thickness (mm)	0.9 +/-10%
Unit weight	1600 gsm +/- 10%
Tensile strength (MPa)	24.5 MPa (Min.)
Elongation at break (%)	500 (Min.)
Adhesion resistance to concrete (N/m)	1000 (min.)

Application Instructions

Surface Preparation

The substrate must be sound, free of loose aggregate and sharp protrusions. The surface does not need to be absolutely dry, but standing water must be removed to prevent loss of adhesion with the substrate. The expansion joints if any, shall be treated as per standard practice. The membrane shall be looped over the joint to allow movement as required.

Installation of Membrane

Horizontal Surfaces

Place the membrane with the granular layer facing towards the concrete pour. Carefully align the membranes and roll it out ensuring a 75 mm overlap with adjacent sheets along the adhesive selvedge. End laps should be staggered by a minimum of 500mm to avoid a build up of layers. Leave plastic release liner in position until overlap procedure is completed. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. During damp conditions (e.g. water spillage), the selvedge can be gently warmed using a hot air gun or similar to remove moisture or condensation and improve initial adhesion.

Vertical Surfaces

Roll out the membrane with the granular layer facing towards the plaster surface. Mechanically fasten to the substrate using fixings (i.e. fasteners) appropriate to the substrate. Carefully align the membranes and roll it out ensuring a 75 mm overlap with adjacent sheets along the adhesive selvedge. Secure the top of the membrane using a batten or fixing 50mm below the top edge. Mechanically fasten to the substrate, typically at 600mm centres, using fixings (i.e. fasteners) appropriate to the substrate. Fixings can be made through the selvedge, this allows firmly rolled overlaps, which are covered by the subsequent strip of HDPE membrane. End laps should be staggered by a minimum of 500mm to avoid a build-up of layers. Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly.

Short edge overlapping or cut edges

Remove the granules for 100mm width using a hot air scrapper(or wire brush the loose granules) from the bottom membrane of the lap. Peel one side of the Talrak® Flexeal HP(S) and stick it onto the cleaned surface and press firmly using a roller. Position the upper lap of the membrane ensuring a full and aligned overlap.

Once the lap is positioned correctly, slowly remove the release film, while firmly rolling the joined sheets together with the seam roller. Alternatively short edges of the rolls can be butt jointed using Talrak® Flexeal HP(S). Centrally place Talrak® Flexeal HP(S) between the two edges below the membranes. Slowly remove the release film.

Termination

Providing a termination bar at the terminating edges should be considered as required.

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Concreting

It is recommended that concrete be poured as soon as the installation of the membrane is completed.

Concrete must be placed and compacted carefully to avoid damage to the membrane. Never use a sharp object to consolidate the concrete.

Storage

Talrak® Flexeal HP(S) must be stored in a cool, dry place in the original unopened packaging.

Store rolls horizontally, not more than one pallet high.

Estimating Packaging

Consider additional 10% for laps and cutting allowance over the estimated area of the material.

Talrak® Flexeal HP(S) is supplied in rolls details of which are furnished below:

Length (m)	20
Breadth (m)	1.2
Thickness (mm)	1.2
Area (Sq.m)	24
Weight (Kg)	41

Precautions

Health & Safety Instructions

There are no health hazards associated with the use of Talrak® Flexeal HP(S).



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

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