

Talrak® Flexeal TPO Adhesive

Two component epoxy bonding adhesive for fleece backed
Talrak® Flexeal TPO membrane



The Construction Alchemists

Description

Two component epoxy bonding adhesive for fleece backed Talrak® Flexeal TPO membranes for concrete substrates.

Features & Benefits

- Suitable for concrete substrates
- Right consistency of mixed material for application using notch trowel
- Excellent bond with fleece backed TPO membrane with high adhesive strength
- Fast curing
- Tolerant to wide range of temperature
- Compatible with Talrakepoprime LV Primer

Primary Application

Used for installation of fleece backed Talrak® Flexeal TPO membranes in podiums, parking lots, flat roofs, green roofs, basement floor etc over concrete substrate.

Specification Clauses

Talrak® Flexeal TPO membrane with fleece backed shall be bonded to the concrete substrate using Talrak® Flexeal TPO Adhesive for fully bonded or partially bonded TPO membrane installation as per technical guidelines provided by the manufacturer.

Technical properties

Specific Gravity of mixed material at 30°C	1.50 - 1.55
Pot Life	30 minutes at 30°C
Compressive Strength (Min.)	30 MPa @ 24 hours
	60 MPa @ 7 days
Slant shear bond strength	12 MPa @ 7 days
Adhesive bond strength (Pull off strength)	>2MPa
Glass Transaction Temperature (Tg)	>50°C

Application Instructions

Surface preparation

The effective bonding of the TPO membrane with concrete substrate is highly dependent on a sound concrete substrate and proper preparation and profiling of the concrete surface. An improperly prepared surface can result in de-lamination of Talrak® Flexeal TPO before achieving the full bond strength. Concrete should be mechanically sound and free from contamination, such as free water, mould oil, grease, laitance, curing compound and dust. Grit blasting, wire brushing, grinding etc, are recommended for surface preparation.

Mixing

The base and hardener shall be emptied into a suitable container and mixed with a slow speed heavy duty paddle mixer ensuring the sides are scraped down. A uniform grey colour should be obtained after mixing thoroughly. The mixing will generally takes 3 minutes.

Application

The mixed Talrak® Flexeal TPO adhesive, is applied to the prepared concrete surface. The fleeced back side of Talrak® Flexeal TPO membrane shall be cleaned to remove any loose or dust particles. TPO membrane shall be laid when adhesive is still in tacky condition. Talrak® Flexeal TPO shall be unrolled over the adhesive applied concrete surface such that the fleeced backing comes in contact with the adhesive and pressed using a hand roller to evenly bond the membrane to the substrate. Typical application thickness shall be about 1mm which can be achieved using a 2mm notch trowel. A suitable wooden or aluminum straight edge may be used to remove any possible wrinkles.

Cleaning

Tools and equipment should be cleaned immediately after use with Talrasol GP.

Fire

Talrak® Flexeal TPO Adhesive is non-flammable. Talrasol GP is flammable. Do not use near naked flames. No smoking.

Estimating Packaging

Talrak® Flexeal TPO Adhesive is supplied in 6kg, 12kg and 24kg combo packs.

Talrak® Flexeal TPO Adhesive



The Construction Alchemists

Consumption

Approximately 1.50 kg/m² at 1 mm thickness.

The actual consumption of material may vary depending on substrate conditions

Storage

Talrak® Flexeal TPO Adhesive has a shelf life of 12 months if kept in dry store in original, unopened containers below 35°C. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health and safety

Talrak® Flexeal TPO Adhesive should not come into contact with skin and eyes or should not be ingested. Avoid prolonged inhalation of solvent vapours. Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier creams should therefore be used while handling the product. Adequate ventilation should be ensured and if working in enclosed areas, suitable breathing apparatus must be used. If the resin comes in contact with skin, it must be removed before it hardens with a resin removing cream, followed by with soap and water - solvent should not be used. Talrasol GP should be washed from skin immediately with soap and water. Should accidental eye contamination occur with any of the above products, it should be washed well with plenty of water and medical advice should be sought. If swallowed medical attention should be sought immediately. Vomiting should not be induced.

Flash Points

Talrak® Flexeal TPO Adhesive Base : 100°C

Talrak® Flexeal TPO Hardener : 100°C

Talrasol GP : 33°C



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
Kanakapura Taluka - 562 112. Ramanagar Dist.

www.talrak.in

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/WPI2 - RI