

Talrak® Tenseal EP

Thixotropic epoxy adhesive for Expansion Joint Tape system



The Construction Alchemists

Description

Talrak® Tenseal EP is a two component, solvent free thixotropic epoxy resin adhesive consisting of light coloured base and dark hardener in pre-weighed quantities that gives visual evidence of proper mixing. It is mainly used to bond the TPE expansion joint tape to the concrete substrates.

Features & Benefits

- Thixotropic consistency - suitable for horizontal, vertical and overhead applications
- High adhesive strength
- Fast curing
- Can be applied on reasonably dry surfaces
- Excellent adhesion of Talrak® Tenseal XS tape to the concrete substrate
- Wide range of temperature applications

Primary Application

Talrak® Tenseal EP is used to bond Talrak® Tenseal XS Tape to the concrete substrate. The adhesive provides a shear load path between the concrete substrate and the expansion joint tape system. The typical application is to bond Talrak® Tenseal XS tape to the concrete substrates such as beams, columns, slabs etc., for expansion joint treatment.

Technical properties

Appearance Base Hardener Mixed material	White Black Grey
Specific gravity of mixed material	1.60 - 1.65
Pot life of mixed material	30 minutes at 30°C
Min. Compressive strength @ 24hours @ 7 days	30 MPa 60 MPa
Slant shear bond strength @ 7 days	12 MPa
Adhesive bond strength	>2 MPa
Glass transition temperature(Tg)	>50°C

Application Instruction

Surface Preparation

All the loose particles such as laitance, adherents, if any shall be removed by mechanical means such as scrubbing, wire brushing etc. Level the surface for a minimum width of 100mm on both the sides of the expansion joint and any undulations, sharp edges on the surface shall be removed by grinding. The surface shall be blown off with a compressed air to remove any dust, residual debris etc. Check for soundness of concrete at surrounding and adjacent area. If any distress features like honeycombs / cracks etc., are found, the same shall be treated with necessary remedial measures.

Mixing

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

Application

Talrak® Tenseal XS Primer - an epoxy-based primer for expansion joint tape system is recommended for concrete substrates before the application of epoxy adhesive (for further details refer Talrak® Tenseal XS data sheet).

Apply masking tape on both sides of the joint to avoid accidental application of Talrak® Tenseal EP in the undesired area. This will help earmark the adhesive application. The mixed adhesive is applied in two stages. In the first stage, the mixed adhesive is applied to a uniform minimum thickness of 2mm on the surface which is covered by the lower flank of Talrak® Tenseal XS tape. In the second stage, which is after the installation of Talrak® Tenseal XS tape (for further details refer Talrak® Tenseal XS data sheet) the adhesive is applied on the surface area covered by the top flank (with perforations) of Talrak® Tenseal XS tape.

Cleaning

All tools and equipment shall be cleaned soon after the application using a Talrasol GP.

Estimating Packaging

Talrak® Tenseal EP is supplied in 6kg combo pack.

Consumption

Approximately 3.3 kg of Talrak® Tenseal EP is required per sqm area at 2mm thickness. However, the coverage will depend upon the substrate condition and thickness of the material used.

Storage

Talrak® Tenseal EP has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety instructions

Some people are sensitive to epoxy resins and solvents. So, gloves, barrier creams, protective clothing and eye goggles should be worn when handling the resin products. If accidental contact occurs, the resin should be removed before it hardens with resin removal cream followed by washing with soap and water. Solvent should not be used. If eye contamination occur washing with plenty of clean water should be commenced and medical attention should be sought immediately. Good ventilation should be ensured. Smoking while handling/application is prohibited.

Fire

Talrak® Tenseal EP is non-flammable.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

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