

# Talrakseal® E-PU

## Heavy duty epoxy urethane joint sealant

(Formerly known as Talrakseal 2PU)



The Construction Alchemists

### Description

Talrakseal® E-PU is a three part sealant based on a blend of epoxy and polyurethane. It can be directly poured into horizontal joints to form a tough yet elastic seal.

Talrakseal® E-PU is available in a selected range colour supplied in a separate pack which also helps to provide visual evidence of uniform mixing.

### Features & Benefits

- Joint is protected from cracking under heavy wheel load
- Excellent adhesion without primer to dry clean concrete
- Resistance to petro-chemicals
- Self levelling to produce uniform and neat joint fills
- Pourable grade ensures effective filling
- Suitable for use in wide joints

### Primary Application

Filling up of control joints in industrial floors subjected to movement of forklifts, trolleys and other moving objects. Can be used to fill joints between bays in concrete floor laid by long strip methods.

### Technical Properties

Specific gravity	1.31
Shore 'A' hardness	60-80
Movement accommodation factor	±10%
Initial cure	24 hours @24°C 12 hours @35°C
Full cure	3 days @24°C 2 days @35°C
Application temperature	+5°C to +45°C
Service temperature	-10°C to +70°C
Chemical resistance	Good resistance to most common mineral acids, alkalis, petroleum based fuels and steam

### Design Criteria

The joints, where the expected movement is within  $\pm 10\%$ , are filled with Talrakseal® E-PU. Although the control joints are cut as per the specification, filling of the joint shall be done as a last activity. This is to ensure that the joint is filled with Talrakseal® E-PU after most of the shrinkage of concrete has taken place.

### Specification Clause

The identified joints shall be sealed using Talrakseal® E-PU, epoxy urethane sealant from Talrak. The sealant shall be applied strictly in accordance with the manufacturer's specification. Recommended width : depth ratio of the joints are as follows :

Joint width (mm)	Sealant depth (mm)
6 - 12	Equal to width
12 - 25	12 - 20
Over 25	1/2 to 3/4 width

### Application Instructions

#### Joint Preparation

The joint surfaces must be clean from any bond breaking materials such as oil, grease, laitance, dust etc. Any residual dust due to cutting of joint, shall be removed using a rotary power brush, dry abrasive blasting or any other approved means. Blow the joints using dry oil free compressed air. When required, foam backing rod should be a firm closed cell grade. De-bonding tape should be used at the base of all joints except where foam backer rod is used. Apply masking tape to either sides of the floor at the joints before starting the sealant work for achieving a straight edge of the finished joint filling. The masking tape should be removed immediately after the sealant work complete.

#### Priming

Priming of the prepared joints is generally not recommended. Any undulations in the joint can be treated using Talrak range of repair mortars.

For maximum adhesion or for joints which may be totally immersed in water, use Talrakepoprime LV as primer.

#### Mixing

The components of Talrakseal® E-PU are supplied in the correct mixing proportions. Add the entire contents of the colour pack and hardener component into the base container and mix together thoroughly for three minutes using a slow speed paddle mixer (300 to 500 rpm). Ensure any settlement is thoroughly dispersed.

The sides of the container should then be scraped down to ensure that no unmixed residue remains. Mixing should then be continued for a further two minutes until an uniform colour of the mixed material is obtained.

## Application

The mixed material is poured directly from the container into the prepared joint to the required level. If the joint width prohibit direct pouring from the container, the mixed material can be poured into a sealant gun and applied to the joint.

It may be necessary after a few minutes to top up the level of the sealant after it has flowed into all joint irregularities. Finally, strip off any masking tape that may have been used.

## Cleaning

Clean tools immediately after use with Talrasol GP. Clean hands with a proprietary hand cleaner.

## Limitations

Talrakseal® E-PU is not intended for use in vertical joints.

## Estimating

### Packaging

Talrakseal® E-PU is supplied in 4 liter combo pack.

### Coverage

Quantity of Talrakseal® E-PU required (liters) =

$$\frac{\text{Joint width (mm)} \times \text{Sealant depth (mm)} \times \text{Joint length}}{1000}$$

## Storage

Talrakseal® E-PU 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 resin systems and may develop dermatitis on skin contact. Rubber gloves and/or barrier creams, protective clothing, goggles and respirator shall be worn while handling the materials. Sufficient mechanical and/or local exhaust ventilation shall be provided to maintain easy working conditions. If contact with skin or eyes occurs, washing with plenty of water is suggested. SOLVENT SHALL NOT BE USED. If irritation persists, seek immediate medical advice. Smoking and naked flame should be avoided while using the material.

Talrak



**Talrak Construction Chemicals Pvt. Ltd.**

An ISO 9001:2015 Certified Company

### Works:

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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.

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