

# Talrakseal® P-PU

Two component cold applied, pourable joint sealant for floors and pavements  
(Formerly known as Talrakseal HP2)



The Construction Alchemists

## Description

Talrakseal® P-PU is a two component cold applied pouring grade hybrid joint sealant based on pitch polyurethane for pavement joints. It is flow applied into the joint either directly or using sealant gun. It is resistant to fuels and oils, which does not soften in hot weather nor it hardens in the cold weather.

## Features and benefits

- Pourable and self-levelling
- Cold applied - no heating equipment required
- Fuel, oil and temperature resistant
- Tough but elastomeric sealant
- High movement accommodation

## Primary Application

For sealing floor joints in concrete roads, concrete runways and industrial floorings. The excellent fuel resistance of Talrakseal® P-PU makes it suitable joint sealant for sealing areas where fuel and oil spillage is likely. Which includes:

- Runways
- Aircraft fuelling areas
- Air hangers
- Rigid pavements
- Truck terminals
- Garages and shop floors
- Parking and cargo areas
- Docks and harbours
- Warehouses
- Mechanical workshop

## Technical properties

Appearance	Black
Density of mixed material	1.30 - 1.35 g/cc
Pot life	30 minutes @27°C
Tack free	After 16 - 18 hours
MAF in butt joint	±25%
Shore A hardness	10 ± 2
Chemical resistance	Resistant to most of the mild acids, alkalis, fossil fuels, grease, hydraulic and mineral oils etc.,
Full cure	5 - 7 days

## Specification Clauses

The joint sealant shall be two part, cold applied pitch polyurethane sealant, Talrakseal® P-PU with a movement accommodation factor of ±25%. It shall be of pourable grade for horizontally downward filling joints.

## Design Criteria

Talrakseal® P-PU has a movement accommodation factor of ±25% in butt joints. The design of the joint spacing and dimensions, should provide for the likely uneven distribution of movement.

The width of the joint should be designed in accordance with the recommendations of IRC 15 to ensure the sealant remains within its stated movement capacity of ±25%. However in general trafficked areas, the expansion joint width should not exceed 30 mm.

**Joint depth:** In trafficked areas it is necessary to recess the level of the sealant 5 to 8mm below the pavement surface, dependent on the time of year and temperature prevailing at the time of sealing.

The width to depth ratio of the joint sealed with Talrakseal® P-PU should be 1:1 to 1.5:1 subject to a minimum 10 mm depth of sealant (example, contraction joint: 15 mm wide x 13 mm depth; expansion joint: 25 mm wide x 20 mm depth).

## Application Instructions

### Joint preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and frost free clean and frost free. Remove all dust and laitance by grit blasting or grinding. Avoid polishing the joint sides. When grinding, the prepared sealing slot should be blown out with dry, oil-free compressed air.

Ensure that any expansion joint filler is tightly packed in the joint and at the required depth to provide the seal dimensions specified. Before sealing, insert a bond breaker caulked tightly into the base of the sealing groove to prevent the sealant from adhering to the base of the slot.

### Priming

Prime the sealing slot surfaces with **Talrakseal® P-PU Primer** using a clean dry brush. Sealant must be applied when the primer has become touch dry i.e., after the evaporation of the solvent but before the primer film has completely reacted (30 minutes and 2 hours after priming, depending on climatic conditions). If the primer film has become completely tack free, the surfaces must be re-primed before applying the sealant.

If the primed areas are left unsealed overnight the primer film must be removed by grit blasting or grinding and the joint interfaces re-primed. Avoid over application of primer, as this may cause puddles of primer to lie at the base of the sealing slot.

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## Mixing

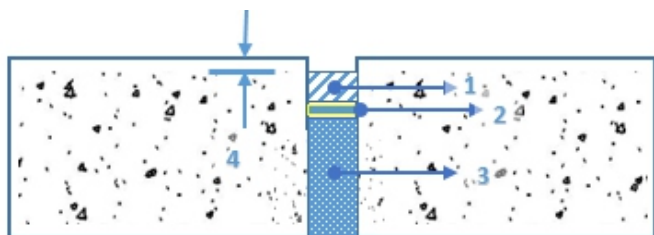
Completely empty the contents of the hardener tin into the base component tin. Using a hand held, slow speed drill (400 to 500 rpm) fitted with a paddle blade stirrer, mix for approximately 3 to 5 minutes until the material is thoroughly mixed.

## Application

The mixed material may be loaded into a sealant gun after removing the nozzle and cap and pulling back the plunger rod. The nozzle cap is then replaced and ready for application. In joints of width 25 mm and above, the mixed sealant may be poured directly from the tin by pressing the sides together to form a pouring lip. Apply mixed sealant into the joint so that the finished level of the seal is just below the trafficked surface as specified.

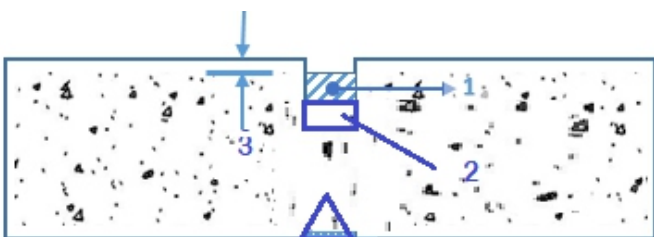
BS 5212:1990 Pt 2 sets out a code of practice for the application and use of joint sealants for concrete pavements.

**Note:** Talrakseal® P-PU Primer is not compatible with bituminous substrates or surfaces laden with any bitumen coatings.



- Talrakseal® P-PU sealant
- Bond breaking strip
- Talrak® Denscell PB filler board
- Recess

Typical details of expansion joint sealing using Talrakseal® P-PU



- Talrakseal® P-PU
- Bond breaker strip
- Recess

Contraction joint in concrete pavement subjected to traffic movement

## Estimating Packaging

Talrakseal® P-PU is supplied in 3 liter combo pack and Talrakseal® P-PU Primer is supplied in 250 ml, 500 ml & 1 liter pack.

## Consumption

For estimation purpose the following table of consumption may be used as guide. However, the quantities mentioned may vary depending on the profile and dimensional variations and substrate condition of the joints.

Joint size in mm (w x d)	Consumption (litres per rm)	Coverage /pack (Rm)
10 x 10	0.10	30.0
15 x 15	0.225	13.4
20 x 15	0.30	10.0
20 x 20	0.40	7.5
25 x 20	0.50	6.0
25 x 25	0.625	4.8
30x 25	0.75	4.0

Talrakseal P-PU Primer: 8 - 10 sqm /ltr

## Cleaning

Clean equipment immediately after use with Talrasol GP. Remove mixed Talrakseal® P-PU from the hands with industrial hand cleanser.

## Storage

Talrakseal® P-PU has a storage life of 12 months and Talrakseal® P-PU Primer has a storage life of 9 months when kept in original unopened containers and stored in dry conditions between 5°C and 27°C.

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## Precautions

### Health & Safety Instructions

Talrakseal® P-PU and Primer, should not come in contact with skin and eyes and should never be ingested. Avoid breathing of vapour. Splashes must be washed off immediately. Wear impervious rubber or PVC gloves and eye protection. Hands should be thoroughly washed with soap and water before eating or smoking. In case of eye contact rinse with plenty of clean water seek medical attention immediately. Cured sealant should not be burned off due to the generation of toxic fumes. Empty containers must be collected for careful disposal and not left lying about.

## Fire

Talrakseal® P-PU primer and Talrasol GP are flammable. Do not expose to naked flames or other sources of ignition. No Smoking. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO2 or foam.

## Flash Point

Talrakseal® P-PU primer: 30°C

Talrasol GP : 33°C

Talrakseal



**Talrak Construction Chemicals Pvt. Ltd.**

An ISO 9001:2015 Certified Company

### Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,  
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[www.talrak.in](http://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/SL09 - R I