

Talrakseal® PS

Two part polysulphide elastomeric sealant for expansion joints in concrete and masonry of width upto 50mm



The Construction Alchemists

Description

Talrakseal® PS is a two part polysulphide elastomeric sealant which is universally usable as concrete joint sealant and industrial glazing sealant. After mixing base and hardener, the polymerization is initiated at room temperature, which is proceeded further until it is cured.

Features & Benefits

- It has good adhesion to concrete substrates.
- It is mainly used as a sealant for expansion joints in concrete.
- It has a good movement accommodation factor.
- It is durable and resistant to fuel.

Primary Application

Sealing joints in building and civil engineering structures, such as airports, rigid pavements, industrial structures etc. It is mainly used as an industrial glazing sealant and construction sealant.

Technical Properties

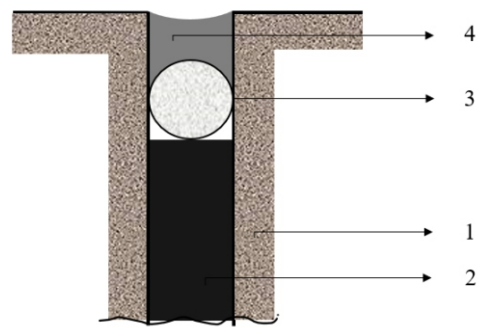
Parameters	Gun Grade	Pourable Grade
Specific gravity	1.6 - 1.7	1.6 - 1.7
Flow	Non-sag	Flowable
Pot life @ 30°C	2 - 3hrs	1 - 2hrs
Appearance	Grey	Grey
Shore A Hardness	14 -22	9 - 18
Tensile strength	Min. 3.5 MPa	Min. 2.5 MPa
Elongation %	Min. 450	Min. 150
Resistance to UV exposure and aging	Good	
Application temperature	+5°C to +45°C	
Movement accommodation factor (MAF)	±15% to 25%	
Adhesion to concrete	Does not debond from the substrate	
Hard dry time @ 25°C	24 hours	
Full curing time @ 25°C	7days	

Design criteria

Talrakseal® PS can be applied to joints upto 50mm width. Joints that may witness cyclic movements should be designed to an optimum width:depth ratio of 2:1, subject to the overriding recommended minimum sealant depths set out below:

- 5mm for metals, glass and other non-porous surfaces
- 10mm for all porous surfaces
- 20mm for trafficked joints and those subject to hydrostatic pressures.

To ensure that the sealant remains within its stated movement capacity ($\pm 25\%$ MAF), sealing slot widths should be designed in accordance with the recommendations of BS 6093. The use of **Talrakseal® PS Primer**, a surface primer is always required on porous surfaces. On non-porous surfaces a primer is not normally required except where glass or glazed surfaces are to be permanently immersed in water.



1. RC member
2. Filler board
3. Backer rod/Bond breaking tape
4. Talrakseal® PS

Specification Clause

The joint sealant shall be two part polysulphide elastomeric sealant, Talrakseal® PS with a movement accommodation factor of ± 15 to 25%. It shall be of pourable grade for horizontally downward filling joints and gun grade for vertical joints.

Application Instructions

Joint Preparation

The joint surfaces must be thoroughly dry, clean and frost free. Remove all dust and laitance by rigorous wire brushing, grinding or grit blasting. Remove any oil or grease. Any expansion joint filler must be checked to ensure it is tightly packed and no gaps or voids exist at the base of the sealing slot before positioning a bond breaker.

Mixing

The mixing procedure remains same for both gun grade and pourable grade. Empty the contents of the hardener into the base tin completely. Mix thoroughly using a slow speed paddle mixer for minimum 5 minutes to obtain a homogeneous lump free mix.

Application

Talrakseal® PS can be applied manually or by pneumatic gun. It should be surfaced to a smooth finish to achieve a concave surface. A minimum of surface lubricant such as dilute detergent solution may be used to assist the process. Any masking tape should be removed immediately after tooling.

Note:

- * Sealants should adhere to only two surfaces of the joint, hence it is recommended to use backer rods / bond breakers to facilitate.
- * Where a particularly neat finish is required, mask the face edges of the joint before sealant application and remove immediately after tooling is completed.

Cleaning

Clean equipment immediately after use with Talrak® recommended cleansers.

Coverage

Joint size (mm) w:d	Coverage (Rm/4kg pack)
5 X 2.5	200
10 X 5	50
15 X 7.5	22
20 X 10	12.5
25 X 12.5	8
30 X 15	5.5
40 X 20	3.1

Talrakseal® PS Primer will cover 600m length of joint size 20mm width x 10mm depth.

Note: The actual coverage may vary depending on surface conditions, wastage factor etc.

Estimating Packaging

Talrakseal® PS is supplied in combo pack of 4kg tin.

Talrakseal® PS Primer is supplied in 200ml plastic container.

Storage

Talrakseal® PS has a storage life of 12 months and Talrakseal® PS Primer has a storage life of 6 months when kept in original unopened containers and stored in dry conditions between +5°C and +27°C.

Precautions Health & Safety Instructions

Talrakseal® PS should not come in contact with skin and eyes or be swallowed. 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 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.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

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