

# ShaliSeal<sup>®</sup> PU 2K

2K Polyurethane Sealant



STP Limited

## Description

**ShaliSeal<sup>®</sup> PU 2K** (formerly known as ShaliSeal PU II) is a modified two component Polyurethane sealant, which cures to form a durable, flexible, watertight bond with most building materials and is capable of accommodating, dynamic joint movement. **ShaliSeal<sup>®</sup> PU 2K** is available in pouring grade for horizontal application. It conforms to BS 5212 : 1990 and US Federal Specification SS-S-200E.

## Characteristics

Appearances	Viscous grey liquid	Pot life @ 25 °C, minute	40
Colour	Grey resin, with colourless hardener	Tack free setting time, @ 35 °C, hr	16 - 24
		Elongation, %	> 300
Solid content, %, by mass	96 ± 2	Butt Joints, %	25
Hardener Shore 'A' @ 25 °C	15 ± 2	Application Temperature, °C	> 5 < 40

## Coverage Guide

Joint Size	10 x 10	13 x 13	15 x 15	20 x 15	20 x 20	25 x 20	25 x 25	30 x 25
L / rmt	0.100	0.169	0.225	0.300	0.400	0.500	0.625	0.750

## Application

- Runways.
- Roads.
- Bridge decks.
- Docks and harbors.
- Civil structures including building – residential, commercial and industrial and prefabricated constructional panels.
- Window sealing for air conditioned coaches.

## Advantages

- Cold Applied – no heating required
- Coal tar free
- High movement accommodation
- Excellent workability, easy to use.
- High performance.
- Fuel, oil and hydraulic fluid resistance.

## Application Methodology

- Ensure that all joints are completely dry and free from all traces of dirt, dust, grease, any previous sealants and foreign matter.
- Clean thoroughly the surface by wire brushing, either hand or machine operated, grit blasting or grinding.
- Ensure dried and cleaned bonding surface in all joints to be sealed. Preferably, all joints should be parallel and straight for better sealing.
- Repair spilled joint should be repaired with appropriate material, such as epoxy mortar.
- Place into the base of the joint breaker or back up material to form correct cross section for joint sealant and to prevent the sealant bonding to the base of the joint.

- Prime the sealing slot surface with ShaliPrime Penetration Primer using clean dried brush.
- Apply **ShaliSeal® PU 2K** within 0.5 – 2 hr of application of primer, depending on climatic condition, when the primer is just touch dry and not when the primer is dried completely.
- If the primer is dried completely or left overnight without applying sealant then remove dried primer by grit blasting and reapply.
- Add Component A (Resin) in Component B (Hardener) and mix thoroughly for 5 mins, until homogenous mix is achieved, using a slow speed drill (400 – 500 rpm) fitted with a suitable mixing paddle.
- Apply **ShaliSeal® PU 2K** by pouring or by gun.

### Joint Size

- **ShaliSeal® PU 2K** can accommodate large continual cyclic movements. However joint spacing shall be taken into consideration for optimum performance.
- Width of joints depends very much on the spacing between joints and designed to ensure total movement does not exceed MAF 25%. In areas subjected to traffic, a maximum joint width of 30 mm is recommended, with a recess of 5 mm below flush.
- Sealant depth should not exceed joint width. A width : depth ratio of 1 : 1 to 1.5 : 1 subject to a minimum 10 mm depth of sealants is recommended

### Cure Time

- Pot life is approximately 2 – 3 hr at 23 °C. However, the application time and rate of cure will depend upon the temperature of sealant and the ambient temperature at the time of application.
- At higher temperature, the rate of cure will be faster. Final cure, when full working properties are developed, occurs within two days at 25 °C although the sealant will normally bear traffic with 24 hours of application.
- Low temperatures retard cure. Do not apply when the temperature is below 5 °C.

### Health & Safety

- The product should not come in contact with the skin and eyes, or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapours.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately - **do not** induce vomiting.

### Packing

Available in 3 units 3 L consisting of Comp A 2.4 L and Comp B 0.6 L.

### Storage

Store in properly ventilated room at a maximum temperature of 25 °C. Storage above this temperature may reduce the shelf life.

### Shelf Life

12 months in original unopened sealed condition.

---



**Advisory Cell**  
STP Limited  
**+91 81302 81114**  
Waterproofers to the Nation

**STP's Businesses**  
Waterproofing & Insulation  
Road Surfacing  
Pipeline Coating  
Repairs & Rehabilitation  
GARA (Grouts & Admixtures)  
Other Powder Products  
Sealant & Additives  
Epoxy Flooring  
Protective / Anti-Corrosive Coating  
Other Products



Call us : +91 98250 27368  
Nilkamal Paints & Hardware

Visit us at : [www.stpltd.com](http://www.stpltd.com) or Email at : [info@stpltd.com](mailto:info@stpltd.com)