

ShaliSeal[®] PU PG 2K

2K Pouring Grade Polyurethane Sealant



STP Limited

Description

ShaliSeal[®] PU PG 2K (formerly known as ShaliSeal PU 2K PG) 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.

It conforms to BS 5212 : 1990 and US Federal Specification SS-S-200E.

Characteristics

Appearance	Viscous grey liquid	Pot life @ 25 °C, minute	40
Colour	Grey resin, with colourless hardener	Theoretical Coverage, gm/rm *	105 For 6.0 mm x 12.0 mm
Solid content, %, by mass	96 ± 2	Butt Joints, %	25
Hardener Shore 'A' @ 25 °C	15 ± 2	Elongation, %	> 300
Tack free setting time, @ 35 °C, hr	16 - 24	Specific Gravity	1.45 ± .05
Movement Compatibility, % (MAF)	± 30	Application Temperature, °C	> 5 - < 40

* Depending upon surface condition. Loss factor is not considered.

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

Movement Compatibility, % (MAF)

Application

- Expansion joints in industrial, commercial / residential buildings, Docks and harbors.
- Joints in concrete roads, bridges, subways, flyovers & airport runway.
- Joints in water retaining structures like water tank, swimming pool, aqueducts, dams, canals & reservoirs.
- Nuclear Power station reactor domes.
- Joints between concrete pipe lines.
- Roof light joints.
- Window sealing for air conditioned coaches.

Advantages

- Cold Applied. No heating required.
- High movement accommodation.
- Excellent workability, easy to use.
- High performance.
- Fuel, oil and hydraulic fluid resistance.

Application Methodology

➤ Surface Preparation

- 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 with ShaliFix EM.
- 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.

➤ **Material Preparation**

- Mix the entire quantity of Base and Accelerator compounds, which are pre-weighed, thoroughly to a homogenous and uniform grey colour.
- Mixing can be done manually with spatula / palette knife or special flat stirrer attached to a low speed electric mixer less than 500 rpm.

➤ **Application of Material**

- Prime the sealing slot surface with ShaliPrime S using clean dried brush.
- Start applying the prepared mixer after 30 minutes of mixing on tacky primed surface.
- Avoid using **ShaliSeal® PU PG 2K** in grooves exceeding 50 mm in width. Also, ensure depth does not exceed the width; use backup rod to adjust depth suitably.

Joint Size

- **ShaliSeal® PU PG 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

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapor.
- 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 eye contact, wash immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

Packing

Available in 4 kg Container packed in 16 kg carton.

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
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