

# ShaliSeal® PS PG I

2K Pouring Grade UV Resistant Polysulphide Sealant



STP Limited

## Description

**ShaliSeal® PS PG I** is two component, polysulphide polymer based, UV resistant, flexible, tear resistant, rubbery, self-leveling, pourable, non-staining sealant, which adheres to most of building materials like cementitious substrates, aluminum, glass, wood, mild steel, etc.

**ShaliSeal® PS PG I** cure at ambient temperature, has excellent recovery characteristics after extended period of compression / elongation with outstanding resistance to most chemicals, weather conditions, aging and shrinkage.

It conforms to BS 5212: 1990 Part I -Type F & Type FB (Flame and Fuel Resistant), IS 12118 Part 1 - 1987, BS:4254 and ASTM C 920.

## Characteristics – Physical

Colour	Grey	Solid Contents, %	97 - 100
Service Temp, °C	- 40 to + 85	Application Temp, °C	5 - 50
Theoretical Coverage, gm / rm *	120 For 6 x 12 mm	Setting Time, 35°C, hrs.	6
		Pot Life, 25°C, 55% RH, hrs.	2
		Specific Gravity of Mix, gm / cc	1.75 ± 0.05
Staining	Nil	Full cure, in tropical conditions	Up to 8 days

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

## Characteristics – Technical

Elongation at break, %	ASTM D 412	400 ± 100
Tensile Strength, kg / cm <sup>2</sup>	ASTM D 412	1 - 3
Shore A hardness	ASTM D 2240	6 ± 2
Movement Accommodation Factor, %	ASTM C 719	± 25
• Butt Joints		± 50
• Lap Joints		

## Application

- Expansion joints in industrial, commercial or residential buildings.
- Joints in concrete roads, bridges, subways, flyovers & airport runway.
- Joints in water retaining structures like water tank, swimming pool including decks, aqua ducts, dams, canals & reservoirs.
- Nuclear Power station reactor domes.
- Joints between concrete pipe lines.
- Roof light joints.

## Advantages

- Excellent UV resistant.
- Provides uniform, water tight seal.
- Adhesion compatible to most substrate.
- Highly resilient with excellent recovery characteristics and thermal flexibility.
- Prevents cracking by allowing expansion / contraction during atmospheric changes.
- Flexible, tear resistant, rubbery, self-leveling.
- Chemical / flame / fuel resistant.
- After full cure
  - Can withstand in fully submerged condition, and
  - The Sealant is suitable for potable water as well.

## Application Methodology

### ➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Ensure that the moisture content in the prepared surface does not exceed 5% immediately before application of **ShaliSeal® PS PG I**.
- To avoid adhesion of spill-over material beside joint, use masking tape at floor level beside both sides to get sharp edged neat and clean joint.
- Use backup material to avoid third face adhesion and to avoid contact between joint forming board & sealant.
- Use primer on vertical side faces of the joint to ensure strong bonding between substrate and sealant.

### ➤ Material Preparation

- Mix the entire quantity of Base and Accelerator compounds, which are pre-weighed, thoroughly to a homogenous and uniform grey compound by a slow speed mixture (approx. 400 rpm) fitted with a suitable mixing paddle.
- Ensure that there is no entrapped air.

### ➤ Application of Material

- Ensure depth of the joint does not exceed its width.
- Use backer rod to adjust depth suitably.
- Prime the surface with ShaliPrime PUM / ShaliPrime S @ 4 - 5 m<sup>2</sup> / L and 7 - 8 m<sup>2</sup> / L respectively, depending upon surface condition.
- Allow the surface to tack dry for about 10 minutes.
- Start applying the prepared mix after 30 minutes of mixing on tacky primed surface.
- Do not use **ShaliSeal® PS PG I** in grooves exceeding 50 mm in width.

### ➤ Limitation

- Do not use **ShaliSeal® PS PG I** in grooves exceeding 50 mm in width.

## Finishing and Cleaning

- Finish the joint in concave shape by using wooden batten soaked in soap water or white spirit from time to time.
- Remove masking tape within 30 minutes before setting of sealants.
- Clean tools and tackles using solvent like, xylene etc.

## Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, 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 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, each container having pre-measured both components in proper ratio.

## Storage

Store in a cool dry place, under shed, away from heat.

## Shelf Life

12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 27°C.



**STP Limited**  
*Enhancing Structures' Life*

### Product Range

- Waterproofing & Insulation
- Road Surfacing
- Sealants & Adhesives
- Pipeline Coatings
- Protective/Anti-Corrosion Coatings
- Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation
- Other Construction Chemicals



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