

# ShaliSeal® PS GG

2K Gun Grade UV Resistant Polysulphide Sealant



## Description

**ShaliSeal® PS GG** is two component, polysulphide polymer based, UV resistant, flexible, tear resistant, rubbery, self-leveling, gun grade, non-staining sealant, which adheres to most of building materials like cementitious substrates, aluminum, glass, wood, mild steel, etc. **ShaliSeal® PS GG** cures 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 *	550 For 25 x 12.5 mm	Setting Time, 35°C, hrs.	6
		Pot Life, 25°C, hrs.	2
		Specific Gravity	1.80 ± 0.05
Mixing Ratio (A:B)	92:8 (by weight)	Full cure, in tropical conditions	Up to 8 days

\* Depending upon surface condition.

## Characteristics - Technical

Elongation at break, %	ASTM D 412	400 ± 100
Tensile Strength, kg / cm <sup>2</sup>	ASTM D 412	3
Shore A hardness	ASTM D 2240	20 ± 3
Movement Accommodation Factor, %	ASTM C 719	
• Butt Joints		± 25
• Lap Joints		± 50

## 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 GG**.
- 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 back up 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.
- Start applying the prepared mixer with Gun after 30 minutes of mixing on tacky primed surface. Use backup rod to adjust depth suitably.
- Do not use **ShaliSeal® PS GG** 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 sprit from time to time.
- Remove masking tape within 30 minutes before setting of sealant.
- 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 comprising of 3.68 kg Component A and 0.32 kg Component B, packed in a 16 kg carton.

## 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 - 30°C.



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