

# ShaliSeal® PU

Moisture Cured Polyurethane Elastomeric Joint Sealant



STP Limited

## Description

ShaliSeal® PU is a single component, Moisture cured Polyurethane elastomeric sealant.

ShaliSeal® PU resists crack arising out of movements of joint materials.

It conforms to EN 14187-S 2003, BS 5212, ASTM C-920, ISO-11600.

## Characteristics - Physical

Skin formation time, at 23 °C 50 % RH- hrs	8 - 10	Paintable / Over coating	Yes
Application Temperature, °C	5 - 40	Density, g / ml, 30 °C	1.20 ± 0.20
Solid content, %	> 90	Resistance to flow • at 23 °C • at 50 °C	≤ 1 mm ≤ 3 mm
Service Temperature, °C	- 40 to + 90		
Colour	Grey		

## Characteristics – Technical \*

Property	Method	Result
Elongation at break, %	ASTM D 412	> 500
Hardness, Shore A	ASTM D 2240	40 ± 5
Elastic recovery, %	ASTM D 926	≥ 90
Modulus of elasticity at 100 %, MPa	ASTM D 412	1.20 ± 0.1
Movement Compatibility, % (MAF)	ASTM C 719	± 30
Tear Strength, kg/cm	ASTM D 624	8 ± 2
Tensile Strength, MPa	ASTM D 412	1.30 ± 0.2

\* After 28 days of curing

## Consumption (Approx)

	15	20	25	30	35
Joint Width, mm	15	20	25	30	35
Joint Depth, mm	8	10	12	15	15
Theoretical Coverage, mtr / 600 ml	5	3	2	1.3	1.1

## Application

- For all types of construction joints both Horizontal and Vertical.
- Runways.
- Roads.
- Bridge decks.
- Docks and harbors.
- Civil structures including building – residential, commercial and industrial and prefabricated constructional panels.
- Can be used for joints of concrete, metal and glass.

## Advantages

- Single component ready to use.
- Excellent adhesion to most of the building materials.
- Good weathering and ageing properties
- Excellent workability.
- Can be paintable.
- Fuel Resistant.
- Non-staining.

- Bubble free curing.
- Resistant to water, dilute caustic solution & acid, saline water, oil, etc.

## 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.
- Concrete surface must be dry and stable at least for 28 days.
- Ensure that the moisture content in the prepared surface does not exceed 5% immediately before application of **ShaliSeal® PU**.
- 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.

### ➤ Application of Material

- Use Extruded polyethylene rod of diameter of 25% more of the width at the base as separation layer, construction & control joints as back up material to avoid 3-face adhesion and to avoid contact between joint forming board & sealant.
- Prime the surface with ShaliPrime S @ 7 m<sup>2</sup> / L in case of concrete surface and 10 m<sup>2</sup> / L in case of metal surface.
- After primer is surface dry and noticeable surface tack is generated, apply **ShaliSeal PU** from the gun slowly and fill. Smooth out with soapy water by pressing the mastic against the edges and the joint.
- Remove protection strip.

## Cleaning & Maintenance

Clean the equipment with solvent like Xylene, Toluene. Scrap off cured sealant on the equipment.

## 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 600 ml sausage.

## Storage

Keep in cool dry place, under the shed, away from heat and humidity. Store in proper ventilated room and temperature should be between 10 - 25 °C.

## Shelf Life

12 months in original unopened sealed condition.



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