

ShaliSeal® PU GG

Single Component Polyurethane Joint Sealant



STP Limited

Description

ShaliSeal® PUGG is single component Polyurethane elastomeric sealant. **ShaliSeal® PU GG** 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 | Cure time @ 23 OC and 50% HR | > 2 mm / 24 hrs |
| Paintable / Over coating | Yes | UV resistance | Good |
| Application Temperature, °C | 5 to 40 | Density, g / ml, 30 °C | 1.16 ± 0.02 |
| Solid content, % | > 90 | Resistance to flow | ≤ 1 mm ≤ 3 mm |
| Service Temperature, °C | - 40 to + 90 | | |
| Colour | Grey | • at 50 °C | |

Characteristics– Technical*

| Property | Method | Result |
|-------------------------------------|-------------|--------|
| Elongation at break, % | ASTM D 412 | > 400 |
| Hardness, Shore A | ASTM D 2240 | 30 ± 2 |
| Elastic recovery, % | ASTM D 926 | ≥ 70 |
| Modulus of elasticity at 100 %, MPa | ASTM D 412 | 0.40 |
| Movement Compatibility, % (MAF) | ASTM C 719 | ± 30 |

* After 28 days of curing

Consumption (Approx)

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

Application

- Runways.
- Roads.
- Bridge decks.
- Docks and harbors.
- Civil structures including building – residential, commercial and industrial and prefabricated constructional panels.

Advantages

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

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 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.

➤ Application of Material

- Use polyethylene closed cell foam rod or sheet or equivalent in expansion, construction & control joints as back up material to avoid 3-face adhesion and to avoid contact between joint forming board & sealant
- Apply **ShaliSeal PU GG** from the gun slowly to avoid any air entrapment. Smooth out with soapy water by pressing the mastic against the edges and the joint while taking care not to create air bubbles. Remove protection strip.
- For old concrete joints where repair of joints are required, ShaliUrethane PUM is to be used as priming material before sealant application

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.



STP Limited
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Product Range

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