

NOLEAK® PU

Single Component Polyurethane Sealant

DESCRIPTION

NOLEAK® PU is single component Polyurethane elastomeric sealant. **NOLEAK® PU** exists 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	
Service Temperature, °C	- 40 to + 90	• at 23 °C	≤ 1 mm
Colour	Grey	• at 50 °C	≤ 3 mm

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 **NOLEAK® 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 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 **NOLEAK PU SEALANT** 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.

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 900 gm 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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