

TOUGHSEAL PU

One Component Non Sag Polyurethane Sealant Page**DESCRIPTION**

TOUGHSEAL PU is a single component non sagging polyurethane sealant ideally for expansion and construction joint application. After application, the sealant cures with atmospheric moisture to form a durable rubber seal.

USES

- Aluminium windows.
- Metal frame perimeter sealing.
- Granite, marble and sandstone joints.
- Can be applied for both horizontal and vertical surfaces.
- Various joint sealing of PC or RC.

ADVANTAGES

- UV resistant
- Excellent workability – easy, quick to apply, non-mixing.
- Easy and ready to use
- Good durability
- Remain flexible throughout
- Decorative - choice of colour
- Non Staining
- Excellent Adhesion Technical

TECHNICAL PROPERTIES

DECEIPTION	VALUE	STANDARDS
Skin Formulation time (23°C 50% HR)	90-120	-
Polymerized thickness after 24 hour (23°C 50% HR)	2.5 mm	-
Resistance to flow at 23°C	3mm	(ISO 7390)
Application Temperature	5°C ≤ T ≤ 40°C	-
Resistance to flow at 50°C	≤ 3mm	(ISO 7390)
Shore A Hardness	25	(DIN 53 505)
Service Temperature	20°C ≤ T ≤ +80°C	-

Modulus of elasticity at 100%	0.25MPa	(ISO 8339)
Elongation at break (ISO 839)	250%	(ISO 839)
Elastic recovery (ISO 7339)	>70 %	(ISO 7339)
Movement capability	25%	-

All values given are subject to 5-10% tolerance.

Specification Clause

All joints indicated shall be sealed with TOUGHSEAL PU, a single component non-sagging polyurethane sealant supplied by StarkePolymers Ltd.

Preparation

Surface must be structurally sound, fully cured, dry clean and free of dirt, moisture, loose particles, oil and grease, asphalt, tar, wax, rust, waterproofing, curing compounds and membrane materials. Fields of Application

TOUGHSEAL PU must be applied between 30 minutes to 3 hours after priming depending upon the climate conditions. If the primed surface cured more than 3 hours, the surfaces need to be re-primed before applying by means of a caulking gun. Extrude the sealant firmly into the sealant by using tooling stick. Remove masking tape immediately after tooling.

Joint Preparation

Clean joint saw cut and control joints of dust, the joint width should be designed for a maximum of 25% movement. The depth of the sealant should be ½ the width of the joint. The sealant depth must be controlled by closed cell backer rod and joint filler. Where the joint depth does not permit the use of backer rod, a bond-breaker (polyurethane strip) must be used to prevent three-point bonding. Soft backer rod should be approximately 25% larger in diameter than the joint width.

PRIMING

In most situations, priming is not necessary. However, for non-porous surfaces prime with Primer one thin coat should be applied using a clean, dry brush ensuring complete coverage.

COVERAGE

For 10mm X 10mm joint size 600ml of Toughseal PU will cover approximately 6 meters.

PACKAGING

Available in 600 ml aluminium foil sausage, 20 sausages per box.

Colour: Available in white, grey, sand beige, black and brown

CLEANING

Clean Equipment immediately after use with solvent. Use proper precaution when handling solvent. Remove cured sealant by cutting with a sharp edge tool.

PRODUCT LIMITATION

- . Do not use it for glazing works.
- . Do not use soapy water for tooling.
- . Do not applied sealant for immersion, such as swimming pools, spas etc.

STORAGE

Store in cool dry place, not over 25°C away from direct sun light and source of heat, don't allow freezing.

SHELF LIFE

12 Months when stored at below 25°C. Avoid exposure to humidity or temperature above 50°C for long time.- date of manufacturing.

HEALTH & SAFETY

contains Isocyanides. The use of protective gloves, clothes, goggling during application is recommended. In case of contact of the material with eyes, rinse with plenty of water and consult a physician. Hands and tools must be cleaned before curing with solvent.

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