

ELASTIC 1K PU JOINT SEALANT

Description

PU SEAL is a single component, Moisture cured Polyurethane elastomeric sealant, which resists crack arising out of movements of joint materials.

Uses

PU SEAL is used as a joint sealant for floor joints in heavy duty areas e.g. industrial areas, breweries, dairies, commercial kitchens, balconies, terraces between concrete elements. It seals expansion and control joints, pre-cast concrete panel joints, window perimeters, steps, risers, roof and tilt wall joints.

Advantages

- Single component - minimizes wastage
- Easy to apply
- Light and UV stable characterized by high elasticity. Possesses good resistance to dilute acids and alkalies, salt solutions, neutral waterbased cleaners as well as hot oils and fats.

Standard Compliance

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

Packaging

PU SEAL: 600 mL Sausage

Consumption

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

Technical Data

Basis	Single component polyurethane sealant (moisture curing).
Color	White & Grey
Density	Approx. 1.30 + 0.1 g/ml
Shore-A-hardness	Approx. 25
Slump resistance	Very good
Tensile strength	Approx. 1.20 Mpa (at 100% elongation)
Elongation %	Approx. 200 %
Tear strength	Approx. 7 Kg/cm ²
Movement accommodation	25%
Sag	Non Sag
Max. joint width	30 mm
Min. joint width	10 mm
Min. depth	8 mm
Application temperature	+10°C to +40°C (substrate)
Temperature resistance	-40°C to +80°C
Skin formation: after approx	50 minutes@ 27°C

Application Methodology

Surface Preparation:

The area for application must be dry, sound, load bearing and have good grip. For best performance it may be necessary to clean the surface with a solvent such as acetone or Methyl ethyl ketone or with coarse lint free cloth.

Priming:

For general application when substrates are good & sound primer is not required for Highly Porous substrate a primer is recommended. Please Consult FCSC technical team, if required.

Cleaning:

Thoroughly clean tools after use with MEK or Acetone

Product application:

Close the joint with backing strip/Rod. Prime mineral based highly porous joint edges with PU SEAL Primer. Prepare non-porous joint edges with PU SEAL Primer.

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Construct joint dimensions (width:depth) with the joint factor:

1:1 up to 10 mm wide joints

2:1 from 10 to 30 mm

PU SEAL can be applied directly into the joint from cartridge or sausage using manual or pneumatic applicators.

A plastic nozzle is supplied which can be cut to the desired orifice and shape to facilitate application.

Apply continuous bead of sealant to the prepared surface/joint in a uniform thickness. If spreading is required use enough pressure to spread the sealant and displace any trapped air.

Physiological behaviour and protective measures:

Once cured, PU SEAL is physiologically harmless. When working with this product the protective provisions from the government safety organization, information sheet M 044 must be observed.

Product stored at low temperatures will lead to an increased viscosity, resulting in lower extrusion rate.

Advice:

- PU SEAL is not suitable for applications under water or under constant water pressure.
- Do not use alcohol-based smoothing materials.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with FCSC Technical team.

Storage & shelf life

PU SEAL has a minimum shelf life of 12 months when stored under room temperatures. It should be protected from extreme temperatures and Preferably stored in shade.

Note

All Technical Data Sheets of FIRST CHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

Fire

PU SEAL is non-flammable.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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