

PU420

Polyurethane Joint Sealant



KEY BENEFITS SUMMARY

- Permanently flexible, excellent weatherability
- Good resistance to UV, ageing, and weathering.
- Easy to gun, Easy to tool
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance.
- Movement accommodation factor: +/- 25%
- Compatible with most common construction materials.
- Can be overpainted with water-based paints. Other types of paint should be discussed with the technical department.

PRODUCT INFORMATION

Description

Tremco PU420 is a one component, gun-grade, non-sag, moisture-cure polyurethane sealant designed to skin and cure rapidly. This high-performance product is designed with outstanding UV resistance and long-term durability.

Conforms to ASTM C920 Type S, Grade NS, Class 25, Use NT, A and M.

Colour

White, black. Beige, Grey, dark grey, Trem Grey, Light grey, Brown, Trem Brown.

Packaging

300 ml cartridge (24 per carton), 600 ml sausage (20 per carton).

Preparation

- Joint faces should be clean, dry and free from dust, oil, grease, old sealants and any traces of contamination which may affect adhesion. Any previously applied sealant must be mechanically removed.
- Apply masking tape to prevent contamination of adjacent surfaces.
- Depending on the substrate, IPA / MEK can be used for cleaning the substrates. Clean powder coated surfaces with cleaning solvent. Perform preliminary tests.

Joint Backing

- Closed cell polyethylene is the recommended backing rod material. Care should be taken with open-cell polyurethane backing rods due to potential migration of materials or air entrapment.

Usage / Purpose

- Sealant is designed to seal concrete construction joints.
- To seal waterproof rivet seams and roof rails.
- To seal perimeter joints around windows and doors.
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies, and body-to-cab joints in motor homes.

Priming

- Excellent adhesion to concrete, Aluminium, brick, ceramic, wood, steel, galvanized steel. Perform preliminary adhesion tests on critical and unknown surfaces

Application

- Apply PU420 equally and free of air bubbles directly out of the cartridge or sausage onto the surface or into the joint.
- Smooth surface, if necessary, within the film formation time
- If masking tape has been used remove it right after smoothing.

Cleaning

- For surfaces and tools that are contaminated by PU420, we recommend IPA/MEK as cleaner. Totally cured material only can be removed mechanically.

Health & Safety Precautions

- Safety data sheet must be read and understood before use

TECHNICAL PARAMETER

Physical Properties	Test Method	Typical Value
Specific Gravity @ 25°C, g/ml	ASTM D1475	1.24 – 1.30
Skin Over Time @ 25°C, Minutes	-	10 – 35
Flow (sag or slump)	ASTM C639	Non-Sag
VOC, (g/L)	USEPA Method 24	< 25
Tensile Strength (N/mm ²)	ASTM D412	> 0.6
Elongation at break, %	ASTM D412	> 150
Hardness: Shore A	ASTM D2240	27 – 33
Application Temperature (°C)	-	+5 to +40
Service Temperature (°C)	-	-20 to +80

Coverage

Joint dimensions (width × depth, mm)	Approx. metres per 300 ml Cartridge	Approx. Metres per 600 ml Sausage
6 × 6	8.30	16.7
8 × 6	6.30	12.5
10 × 8	3.80	7.5
15 × 10	2.00	4.0
20 × 12	1.20	2.5
25 × 15	0.80	1.6
30 × 15	0.60	1.3

Overpainting

Can be overpainted with water-based paints. Other types of paint should be discussed with the technical department.

Please Note

Contact with bituminous or tar containing surfaces can lead to discoloration. Application to natural stone substrates is recommended only after appropriate testing. The application on backs of mirrors, plastics that are sensitive to stress cracking and lasting exposure to water or vapour is not recommended. Not suitable for polyethylene, silicone, butyl rubber, neoprene, or EPDM.