

# PU520

Construction Sealant



## KEY BENEFITS SUMMARY

- Suitable for high heat and humid application conditions.
- Good resistance to UV, ageing, and weathering.
- Fast cure compared to sim as products up to 2.5 mm in the first day.
- Movement accommodation factor: +/- 50%
- Compatible with most common construction materials.
- Can be overpainted with water-based paints. Other types of paint should be discussed with the technical department.
- Non staining to porous substrates tested to ASTM C1248

## PRODUCT INFORMATION

### Description

Tremco PU520 is a one component, non-sagging hybrid polyurethane based sealant.

**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

PU520 is recommended for construction sealing such as joints in facades, rainscreens and curtain walls; perimeter joints around windows, doors and roof lights; and high movement joints. It can be used for indoor and outdoor applications.

### Priming

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

### Application

- Apply PU520 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 PU520, 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	Result
Specific Gravity @ 25°C, g/ml	ASTM D1475	1.2
Tack Free Time @ 23°C / 50% RH, Minutes	ASTM C-679-87	~ 60
Consistency – 50 mm profile	ASTM C639-01	Non-Sag
Cure Rate	Internal Test Method	~ 2mm / 1 <sup>st</sup> Day
Tensile Strength (N/mm <sup>2</sup> )	ASTM D412	1.30
Elongation at break, %	ASTM D412	> 300
Hardness: Shore A	ASTM D2240	27 – 33
Application Temperature (°C)	-	+5 to +40
Service Temperature (°C)	-	-40 to +90
Storage	Store in shaded dry conditions between +5 °C and +25 °C.	
Shelf Life	12 months when stored as recommended in original unopened containers	

**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.