

PU520

CONSTRUCTION SEALANT

COSMO

Lasting Performance



KEY BENEFITS SUMMARY

- Suitable for high heat and humid application conditions.
- Good resistance to UV, ageing and weathering.
- Fast cure compared to similar 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.

PRODUCT INFORMATION

Description

Cosmo PU520 is a one component, non-sagging sealant based on polymers.

Conforms to ASTM C920 Type S, Grade NS, Class 50, Use NT, A and M.

Colour

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

Packaging

310 ml cartridge (12 per carton),
600 ml sausage (20 per carton).

Preparation

- Joint faces should be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant 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, AT115 and AT200 cleaners are available. Clean powder coated surfaces with AT115. 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 façades, rainscreens and curtain walls; perimeter joints around windows, doors and rooflights; and high movement joints. It can be used for indoor and outdoor applications.

Priming

- Excellent adhesion to concrete, glass, 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 AT115 or AT200 as cleaner. Totally cured material only can be removed mechanically.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

PU520

CONSTRUCTION SEALANT

TECHNICAL DATA

PROPERTY	TEST METHOD	RESULT
Specific Gravity	DIN 52451-A	1.2
Consistency – 50 mm profile	ASTM C-639-01	Non-sagging
Tack Free Time	ASTM C-679-87	Approx. 60 minutes at 23° C / 50% RH
Cure Rate	Internal	Approx. 2 mm /1st day
Flow (sag or slump)	ASTM C639-01	
Tensile Strength	ASTM D412 -98a	1.3 N/mm ²
Elongation at Break	ASTM D412 -98a	>300%
Shore A	ASTM 2240-97	27-33
Movement Capability	ASTM C719	±50%
Application Temperature		+5°C to +40°C
Service Temperature		-40°C to +90°C
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 x depth (mm)	Approximate metres per 310 ml cartridge	Approximate metres per 400 ml sausage	Approximate metres per 600 ml sausage
5 x 5	12.4	16	24
8 x 6	6.4	8.3	12.5
10 x 8	3.8	5	7.5
15 x 10	2	2.6	4.0
20 x 12	1.2	1.6	2.5
25 x 15	0.8	1	1.6
30 x 15	0.6	0.8	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 discolouring. 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.