SP523

Premium Hybrid Sealant

SINGAPORE GREEN BUILDING PRODUCT
S G B C
EXCELLENT
SGBP 5100

DESCRIPTION

SP523 is a one component, non-sagging sealant based on hybrid polymers. This product conforms to the requirements of ASTM 920 including Type S, Grade NS, Class 50, uses: T, NT, M, G, A, O.

BASIC USES

SP523 is recommended for construction sealing such as joints in façades, rain screens and curtain walls; perimeter joints around windows, doors and rooflights; and high movement joints. It can be used for indoor, outdoor and cleanroom applications.

FEATURES & BENEFITS

- 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 accommocation factor: +/-50%
- Low odour and non-corrosive
- Solvent and isocyanate free - suitable for clean room, semiconductor, pharmaceutical applications.
- Compatible with most common construction materials
- Can be overpainted with water based paints. Other types of paint should be discussed with the technical department.

PACKAGING

300 ml cartridge (25 per carton)
600 ml sausage (20 per carton)

COLOUR

White, grey, and black. Other colours available on request, subject to minimum order quantity.

LIMITATIONS

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.

CLEANING

Remove excess sealant immediately with a suitable cleaner. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

DIRECTIONS FOR USE

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.

Priming

- Perform preliminary adhesion tests on critical and unknown surfaces.
- Contact Tremco CPG Technical Services department if you have any questions.

Application

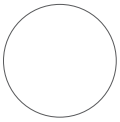
- Apply SP523 equally and free of air bubbles directly out of the cartridge onto the surface or into the joint.
- Tool surface if necessary before skinning.
- If masking tape has been used, remove it immediately after tooling.

WARRANTY

Tremco CPG APAC products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG APAC written instructions and (b) in any application recommended by Tremco CPG APAC, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco CPG APAC reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Joint dimensions width x depth (mm)	Approximate metres per 310 ml cartridge	Approximate metres per 600 ml sausage
5 x 5	12.4	24
8 x 6	6.4	12.5
10 x 8	3.8	7.5
15 x 10	2	4.0
20 x 12	1.2	2.5
25 x 15	0.8	1.6
30 x 15	0.6	1.3

STANDARD COLOUR(S)



White
(RAL 9003)

Grey
(RAL 7038)

Black
(RAL 9005)

CUSTOMISATION

Colour customisation is available upon request.

NOTE: RAL codes are used as a guide only and are not an exact match.
Colours shown on the chart are approximate and may not reflect the shade precisely. Different lighting conditions and screen types can influence colour appearance. For truer colour, please view in daylight. Contact Tremco CPG for more information.

PROPERTY	TEST METHOD	TREMCO HYBRID SP523 - TYPICAL VALUES	ASTM C920 - PASSING CRITERIA
Specific Gravity	DIN 52451-A	1.6	
Staining and color change	ASTM C510	No staining, No color change	No visible staining on white cement mortar base
Non-staining test on marble and granite	ASTM C1248	No bleed, no stain	No visible staining on white marble after 5000hrs exposed to UV
Rheological (Flow) Properties	ASTM C1183/1183M: 2013 (2018)	Vertical displacement: 0mm sag (non-sag) Horizontal displacement: No deformation	Vertical displacement: <4.8mm Horizontal displace-ment: No deformation
Film Formation Time	Internal	Approx. 35 minutes at 23°C / 50% RH	
Cure Rate	Internal	Approx. 2.5 mm /1st day	
Complies with ASTM C920, Type S, Grade NS, Class 50, Use NT, M, G, A and O			
Weight Loss	ASTM1246-99	1.5% - no cracking no chalking	(max permissible 7%)
Tack Free	ASTM 679-97	No transfer to test specimens to the PE Film after 70 mins	No transfer of sealant to PE Film (after 72 hours)
Shore A	ASTM 661	35 Average	(permissible range 25-50)
Movement	ASTM C1247:2014 & ASTM C719:2014	±50%	ASTM C920 CLASS 50
Adhesion-In-Peel, average	1) Aluminium	> 77N (> 17lbf) - No loss in bond	> 22.2N (>5lbf)
	2) Glass	> 90N (> 20lbf) - No loss in bond	> 22.2N (>5lbf)
	3) Mortar	> 88N (> 19lbf) - No loss in bond	> 22.2N (>5lbf)
Adhesion-In-Peel, After UV Exposure, average	1) Glass	> 85N (> 19lbf) - No loss in bond	> 22.2N (>5lbf)
Sums of VOCs (mg/m.h)	ISO 16000-3,6,9	Benzene - 0.000 (not detectable) Toluene - 0.000 (not detectable) Ethylebenzene - 0.000 (not detectable) Xylene - 0.000 (not detectable) Styrene - 0.000 (not detectable) Formaldehyde - 0.000 (not detectable) Acetaldehyde - 0.000 (not detectable)	Not more than 0.001 mg/m.h
Application Temperature		+5°C to +50°C	
Service Temperature		-40°C to +90°C	
Storage	Store in dry shaded conditions between +5°C and +25°C.		
Shelf Life	12 months if stored as recommended in original unopened packaging.		