

CI/SfB	Yt4
CAW P22	
Uniclass L675:P99	

Description

SP523 Dymonic is a one component, non-sagging sealant based on hybrid polymers.

Colour

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

Packaging

310 ml cartridge (12 per carton)
400 ml sausage (20 per carton)
600 ml sausage (12 per carton)

Technical Information

Property	Test Method	Result
Specific Gravity	DIN 52451-A	1.6
Consistency – 20 mm profile	EN 27390	0 mm, non-sagging
Consistency – 30 mm profile	EN 27390	0 mm, non-sagging
Consistency – 50 mm profile	EN 27390	0 mm, non-sagging
Film Formation Time	Internal	Approx. 35 minutes at 23°C / 50% RH
Cure Rate	Internal	Approx. 2.5 mm /1st day
Modulus at 100 % Elongation	DIN EN ISO 8339	approx. 0.4 N/mm ²
Tensile Strength	DIN 53504 S2	0.7 N/mm ²
Elongation at Break	DIN 53504 S2	Approx. 300%
Complies with ASTM C920, Type S, Grade NS, Class 25, Use NT,M,G,A and O		
Weight Loss	ASTM1246-99	3.1% (max permissible 7%)
Tack Free	ASTM 679-97	62 minutes (max permissible 72 hours)
Shore A	ASTM 661	31 Average (permissible range 25-50)
Movement	ASTM C719	±25%
Tensile Strength	ASTM 412	1.3 N/mm ²
Tensile at 100% Modulus	ASTM 412	0.5 N/mm ²
Max recorded Elongation		504%
Application Temperature		+5°C to +50°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.

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 are as cleaners available. Clean powder coated surfaces with AT115. Perform preliminary tests.



SP523

Dymonic Hybrid Sealant & Adhesive



Usage / Purpose

SP523 Dymonic 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.

Key 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 accommodation factor: 25%
- Low odour and non-corrosive
- Solvent and isocyanate free
- Compatible with most common construction materials
- Overpainting possible is paint compatibility checked prior to use

Hybrid Sealant & Adhesive

Joint Backing

- In movement joints, back fill the joint with polyethylene joint backing in order to control the depth of sealant and prevent three-sided adhesion.

Priming

- Perform preliminary adhesion tests on critical and unknown surfaces. See adhesion table below more information.

Application

- Apply SP523 equally and free of air bubbles directly out of the cartridge onto the surface or into the joint.
- Smooth surface if necessary within the film formation time using AT300.
- If masking tape has been used remove it right after smoothing.

Cleaning

For surfaces and tools that are contaminated by SP523, we recommend AT115 or AT200 as cleaner. Totally cured material only can be removed mechanically.

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

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.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products.

For more detailed information, service and advice, please call Customer service on 01942 251400.

Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, but

which is proved to be defective, will be replaced free of charge.

No liability can be accepted for information provided in this leaflet although it is published in good faith and believed to be concerned. tremco illbruck Limited reserves the right to alter product specification without prior notice, in line with Company policy of continuous development and improvement.



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Adhesion Table

Substrate	Primer
ABS	AT150
Acrylic glass (PMMA)	+, (AT150)
Aluminium	+, (AT150)
Brass	+
Brick	AT140
Concrete	+, AT140
Copper	+
Electrically anodized aluminium	+
Glass	+
Hot dip galvanized steel	+, (AT150)
Iron	+, (AT150)
Polyamide	+, (AT150)
Polyester (reinforced with glass fibers)	+
Polypropylene	AT150
Polystyrene	AT150
Powder coating	Test for every single case (AT150, AT160)
PVC foil	+, AT150
PVC rigid	+, AT150, AT160, tests are recommended
Sanitary acrylic coloured	+, (AT150)
Stainless steel	+, (AT150)
Tiles back side	AT140

The above recommendations refer to applications with normal weathering load. Due to the numerous possible variations of substrates they only can be used as a first orientation:

+ no primer necessary

+, ... tests have shown, that sometimes, but not always primer is needed. This depends on the real loads in the application, the exact composition of the neighbouring components as well as on the structure of the adhesion surfaces. As these influences most times cannot be predicted, we recommend preliminary adhesion tests, if the use of primer is renounced.

- not recommended on this surface. This is a general rule on substrates like polyethylene, silicone, butyle rubber, Neoprene, EPDM, bituminous or tar containing surfaces as well as on natural stone.