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|-------------------|-----|
| CI/SfB            | Yt4 |
| CAW P22           |     |
| Uniclass L675:P99 |     |

## 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 25, uses: T, NT, M, G, A, O.

## 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 (20 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 <sup>2</sup>   |
| Tensile Strength  | DIN 53504 S2    | 0.7 N/mm <sup>2</sup>   |
| 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 <sup>2</sup>   |
| Tensile at 100% Modulus   | ASTM 412        | 0.5 N/mm <sup>2</sup>   |
| 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 cleaners are available. Clean powder coated surfaces with AT115. Perform preliminary tests.



## SP523

### Hybrid Façade Sealant



#### Usage / Purpose

SP523 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
- Can be overpainted with water based paints. Other types of paint should be discussed with the technical department.

## Hybrid Façade Sealant

### 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. 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<br>width x depth<br>(mm) | Approximate<br>metres per<br>310 ml cartridge | Approximate<br>metres per<br>400 ml sausage | Approximate<br>metres per<br>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.

### 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 Services 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 the information provided in this leaflet although it is published in good faith and believed to be correct. tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



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### Health & Safety Precautions

Safety data sheet must be read and understood before use.

### 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.