

CI/SfB		Yt4
CAW P22	Uniclass L675:P99	

Description

SP025 Fire Membrane Adhesive is chemically neutral and low odour during and after curing.

When tested to EN13501-1 with ME010 Façade UV & Fire Membrane, the system achieves Class B-s1, d0 (Reaction to fire). SP025 also achieves Class B-s1, d0 when tested in isolation (applied to Class A2 substrate). On full curing, the product is permanently elastic but with a high mechanical strength. SP025 shows a good resistance to UV, weather and ageing and is free from isocyanates and silicone.

Material

Mono-component, non-sagging, elastic adhesive based on hybrid-polymers.

Packaging & Colours

Sales Item No.	Colour	Pack Size	Foils/Carton
503313	Concrete Grey	600 ml	20
503314	Black	600 ml	20

Technical Information

Property	Test Method	Results
Composition	-	Hybrid polymer
Curing	-	Cures by airborne humidity
Nature	-	Elastic
Reaction to Fire	EN 13501-1	Class B-s1, d0 tested with ME010 Membrane and in isolation (bonded to Class A2 substrate).
Density	DIN 52 451-A	~ 1.6 g/cm ³
Skin Forming Time	at +23°C & 50% RH	~ 25 minutes
Cure rate	-	~ 3 mm/1 st day
Maximum Movement	ISO 11600	20%
Tensile Strength at Break	DIN EN ISO 8339 Method A	~ 0.7 N/mm ²
Elongation at Break	DIN EN ISO 8339 Method A	~ 240%
Shore A Hardness	DIN 53 505	~ 30
Service Temperature	DIN 53 504	-40°C to +90°C
Application Temperature	-	+5°C to +40°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.	

Necessary Tools

- Sausage application gun (such as AA956), smoothing tools such as AA311, and AA301 Smoothing Agent for sealant applications.

Protective Equipment

Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.



SP025

Fire Membrane Adhesive

Usage / Purpose

Suitable for bonding and sealing in construction applications. Façade sealant for external and internal use according to DIN EN 15651-1, Class 20HM. Tested with ME010 Façade UV & Fire membrane to EN 13501-1: Class B-s1, d0. Also Class B-s1, d0 when tested in isolation fixed to Class A2 substrate. Suitable for bonding illbruck intelligent membrane range (NOT EPDM).

Key Benefits

- Tested with ME010 and in isolation to EN 13501-1, achieving Class B-s1, d0
- Very low-emission EC1 Plus
- Excellent bonding even with slightly damp surfaces
- Fast curing single component system (film formation time approx. 25 minutes)
- UV and rain resistant, isocyanate and silicone-free, odourless

Fire Membrane Adhesive

Adhesion Table

Substrate	Recommendation	Substrate	Recommendation
ABS	+, AT150	Polyamide	+
Acrylic glass (PMMA)	+, AT150	Glass fibre reinforced Polyester	+
Aluminium	+	Polypropylene	-
Concrete	AT140	Powder coated	Test for every case
Anodised aluminium	+, AT150	Roof tiles	AT140
Glass	+	Sanitary acrylic coloured	+, AT150
PVC rigid	AT150, AT160	Stainless steel	+, AT150
Hot dip galvanised metal	+	Tiles	+
Iron	+	Tiles reverse side	AT140

The above recommendations can only be used as an indication of performance due to the variation in substrates.

+ no primer necessary

+, tests have shown that sometimes primer is required, depending on loading, variation in substrate. Testing using the specific substrates and conditions is recommended.

- not recommended for this substrate. This generally applies to eg polyethylene, silicone, butyl rubber, neoprene, EPDM, bituminous or tar containing materials, and natural stone.

Surface Preparation

- The surfaces must be clean, load-bearing, dry to slightly moist, frost, dust and grease-free.
- Due to the wide variety of different substrates, adhesion tests are recommended (AT140 Primer or AT150 Primer may be recommended).
- Slight moistening is advantageous for the curing of the adhesive.

Application as a Membrane Adhesive

PERIMETER SEALING OF WINDOWS AND DOORS

- Apply between +5°C to +40°C.
- For bonding to a window frame, apply a minimum 10 mm diameter bead of SP025 to the frame, to align 15 mm from the edge of the membrane and ensure that the appropriate face of the membrane (consult specific membrane TDS) is facing outwards.
- Press the membrane onto the SP025 to achieve a consolidated bead after rolling the membrane of 20-30 mm x 2-3 mm. Take care that the adhesive does not exude onto the frame. If it is not possible to apply a consolidated bead of minimum 20 mm, please consult Tremco CPG UK Limited technical department.
- For bonding to the construction substrate (e.g. sheathing board), apply a 10 mm diameter bead to align 15 mm inside the edge of the membrane and consolidate using a seam roller to achieve a bead of approximately 20-30 x 2-3 mm.

Application as a Membrane Adhesive

FULL FACE APPLICATION TO SHEATHING BOARDS

- Apply the membrane horizontally, starting from the bottom of the wall to ensure natural water run-off, fixing each sheet with SP025. Apply a 10 mm diameter bead to align 15 mm inside the edge of the membrane and consolidate using a seam roller to achieve a bead of approximately 20-30 x 2-3 mm.
- Continue applying further sheets of membrane with a minimum overlap of 100 mm, bonding as above. Vertical membrane joints should be bonded in the same way (consult specific membrane TDS).

Coverage

Width x Depth (mm)	Linear metres per 600 ml Sausage
6 x 6	16.7
10 x 6	10.0
10 x 10	6.0
20 x 10	3.0

Fillet Width x Depth (mm)	Fillet Linear metres per 600 ml Sausage
6 x 6	33.3
10 x 10	12.0

Circular Bead for Bonding Membranes (mm)	Linear metres per 600 ml Sausage
8	11.9
10	7.6

Cleaning

Fresh, uncured adhesive can be removed with AT115 Cleaner or AT200 Cleaner. Cured material can only be mechanically removed with the help of a suitable tool.

Please Note

If used on natural stones, staining of the edges cannot be excluded. Application on reverse of mirrors, plastics that are sensitive to stress cracking and lasting exposure to water is not recommended. Contact with bituminous or tar containing surfaces can lead to discoloration.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited 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 CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in

accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.

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