

CI/SfB	Yt4
CAW P22	
Uniclass L675:P71	

Composition

SP540 is a one-part, non-sagging, elastic sealant based on hybrid-polymers.

Description

SP540 couples the processing advantages of a one-part sealant and a curing system that is very fast for such products. The time for film formation is approximately 20 minutes. During and after curing, SP540 is chemically neutral, non-corrosive and low odour. After total curing the product is permanently elastic while still maintaining a high mechanical strength. SP540 shows a good resistance to uv light, weather and ageing. The product is free of isocyanates and silicone.



Colour & Packaging

Colour	Packaging
Concrete grey & white / Other colours on inquiry.	600 ml sausages (20 per carton)

Technical Information

Property	Test Method	Result
Specific Gravity	DIN 52451-A	1.5
Processing Temperature		+5°C to +40 °C
Consistency	EN 27390 20 mm profile	0 mm, non-sagging
Film Formation	23°C, 50% RH	Approximately 35-40 minutes
Cure Rate		Approximately 3 mm / 1st day
Shrinkage (by Volume)	DIN 52451	3%
Modulus at 100% Elongation	DIN 53504 S2	Approximately 1.0 N/mm ²
Tensile Strength	DIN 53504 S2	Approximately 1.7 N/mm ²
Elongation at Break	DIN 53504 S2	Approximately 300%
Shore A Hardness	DIN 53505	35
Movement Capability	ISO 11600	25%
Classification	ISO 11600	25HM
Temperature Resistance		-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 packaging

Preparation

- Joint faces should be clean of dust and free from substances likely to impair adhesion.
- Loose friable material must be removed and arrisses made good. Remove loose particles on concrete and plaster joints using a brush.
- Metal surfaces should be degreased with solvent.
- For a neat finish use masking tape for the joint edges.
- Depending on the substrate AT115 and AT200 are as cleaners available.
- Clean powder coated surfaces with AT115.
- Perform preliminary tests.

Backfilling

- If necessary to achieve the optimum joint cross section back fill the joint with closed cell polyethylene backer rods.

SP540

Floor Joint Hybrid Sealant

Usage / Purpose

SP540 is an elastic hybrid sealant for floor joints in pedestrian walkways, warehouses, parking areas. SP540 can be used in both indoor and outdoor applications.

Key Benefits

- Isocyanate & silicone free
- Fast curing
- Fast tack-free time
- Permanent elasticity
- High mechanical strength and good abrasion resistance
- Excellent resistance to weathering, aging and UV exposure

Floor Joint Hybrid Sealant

Pre-Treating the Adhesion Surfaces

- Perform preliminary tests on critical and unknown surfaces in any case.
- See adhesion table below for eventually necessary pretreatment according to our experience.

Application

- Apply SP520 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 SP520, we recommend AT115 or AT200 as cleaner. Totally cured material only can be removed mechanically.

Please Note

Contact with bituminous or tar containing surfaces can lead to discoloration.

Staining can occur when used on natural stone.

As substrates can have a wide variation of properties, it is recommended to always perform sufficient testing to ensure good adhesion, etc., can be achieved.

Adhesion Table

Substrate	
Aluminium	+
Concrete	+, AT140
Electrically anodized aluminium	+, AT150
Glass	+
Hot dip galvanized metal	+
Iron	+
Stainless steel	+, AT150
Tiles	+
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, butyl rubber, Neoprene, EPDM, bituminous or tar containing surfaces as well as on natural stone.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

tremco illbruck has a team of experienced Technical Service 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 the information provided in this leaflet although it is published in good faith and believed to be correct.;tremco illbruck Ltd. reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



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