

CI/SfB	Yt4
CAW P22	
Uniclass L675:P743	
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KEY BENEFITS SUMMARY

- A high performance silicone sealant developed specifically for the sealing of natural stone materials without discolouration
- Easy application and excellent tooling properties
- Good resistance to UV light, ageing and weathering
- Contains fungicide to prevent mould growth - suitable for sanitary applications
- Rapid curing formulation - skins within 10 - 20 minutes
- Chemically neutral, not corrosive and very low odour
- Compatible with most construction materials

PRODUCT INFORMATION

Description

Tremco FA870 is a one component, non-sagging, silicone based sealant free of plasticiser with neutral cross-linkage for sealing of colour sensitive natural stones. Contains fungicide.

Usage / Purpose

Tremco FA870 has been formulated for the long term elastic sealing of connection and movement joints between natural stones such as granite, slate, terrazzo, porphyry, limestone, travertine, sandstone, quartzite, marble, etc. as well as for connection joints with other conventional materials like concrete, ceramics, metals, glass, PVC and primed wood.

LIMITATIONS

Not suitable for substrates like polyethylene, silicone, butyl rubber, neoprene, EPDM, bituminous or tar

containing surfaces. Contact with bituminous or tar containing surfaces can lead to discoloring and failing adhesion. For bonding larger surfaces a special processing must be observed. Additional surface treatment of natural stones such as fluating, should be performed after sealing.

Colour

White, Light Grey, Dark Grey, Concrete Grey, Anthracite, Black, Portland (Light Sandstone), Dark Sandstone

Packaging

400 ml sausage (25 per case)

Availability

Direct form Tremco illbruck (see back of leaflet for address and telephone details) or local or national distributors. More details available at www.tremco-illbruck.com.

USAGE GUIDELINES

Necessary Tools

Sausage gun and a sharp knife to pierce foil.

Joint Design Consideration

- Joint design to be in accordance with ISO 11600 and BS 6093
- For the purpose of joint width calculation in BS 6093 the MAF of Tremco FA870 is 20%
- Width to depth ratio should be 2:1 subject to a minimum depth of 10 mm on porous substrates and 6 mm on non-porous substrates
- Sealant width not to be less than sealant depth
- For fillet joints the minimum bite should be 10 mm for porous substrates and 6 mm for non-porous substrates.

Preparation

- Always carry out a test to confirm compatibility prior to use.

- Surfaces must be clean, free from grease, and must be stable and dry.
- Use a brush to remove loose particles from joints.
- For a neat joint finish, use masking material on joint edges (particularly important on natural stone).
- For powder coatings, clean with isopropanol and conduct preliminary tests to confirm compatibility.
- On materials such as glass, aluminum, ceramics, lacquered wood, PVC, epoxy and polyester no primer is required. For other materials, please contact Tremco illbruck Technical Services.

Joint Backing

- Use where necessary to achieve the optimum joint cross section, fill the joint with polyethylene backer rods.

Application

- Pierce the sausage and load into the applicator gun. Cut nozzle to suit the required bead thickness. Gun out the sealant to achieve a constant flow.
- If necessary, smooth during film formation period using a palette-knife or jointing tool.
- Remove any masking tape immediately after smoothing.

Coverage Rate (per 400 ml sausage)

The following table may be used to calculate typical consumption rates:

Joint Size w x d (mm)	Usage (m)
5 x 3	26.7
5 x 5	16
8 x 6	8.3
10 x 8	5.0
15 x 10	2.6
20 x 12	1.6
25 x 15	1.0

TECHNICAL INFORMATION

Property	Test Method	Result
Fire Classification	DIN 4102	B2
Specific Gravity	DIN 52 451-A	1.02
Resistance to Sagging, 20 mm	EN 27 390	0 mm
Skin Formation	+23°C, 50% RH	Transparent: Approx. 10 minutes Coloured: Approx. 15 to 20 minutes
Curing Rate	+23°C, 50% RH	3.5 mm in 1st Day
Extension - Stress Capacity 25% Extension 100% Extension	EN 28 339, Method A	up to 0.4 N/mm ² 0.5 to 0.6 N/mm ²
Tear Resistance	EN 28 339, Method A	0.7 N/mm ²
Application Temperature		+5°C to +40°C
Service Temperature		-40°C to +160°C
Permissible Overall Deformation		20%
Recovery Capacity from 60% Extension	EN 27 389, Method A	95%

Cleaning

Remove excess sealant immediately with Tremco AW421 Industrial Cleaner or acetone. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

Storage

Store in shaded dry conditions between +5°C and +40°C.

Shelf Life

18 months when stored as recommended in original unopened containers.

Health & Safety Precautions

Product 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.