

Cl/SfB		Yt4
CAW P22	Uniclass L675:P743	

Description

FA870 is a one component, low slump silicone completely free of any ingredients likely to cause migratory staining to natural stone. It is neutral curing for safe sealing of stonework and has a conventional finish. Contains fungicide. FA870 is classified according to ISO 11600 as F-20HM. Please see table below for further classifications.

Colours

Available in 24 colours – see colour chart

Packaging

310 ml cartridge (12 per carton)

Technical Information

Characteristic	Standard	Classification
Classification	EN 15651-1 EN 15651-3	Class 25 LM CC XS2
Staining	DIN ISO 16938	No migratory staining
Specific Gravity	BS EN 1183-1B	~1.0
Skin Formation	+23°C, 50% RH	15 minutes
Curing Rate	+23°C, 50% RH	~3.5 mm in 1st day
Shrinkage	BS EN 10563	Approx. 5%
Modulus at 100% Elongation	BS EN 8339	0.5 N/mm ²
Tensile Strength	BS EN 8339	Approx. 0.6 N/mm ²
Elastic Recovery at 60% Elongation	BS EN 7389	> 90%
Movement Capability	ISO 11600	DIN EN ISO 11600-F-20HM
Shore A Hardness	DIN 53505; ISO 868	~26
Application Temperature		+5°C to +40°C
Service Temperature		-40°C up to +150°C* *short term
Storage	Store in shaded dry conditions between +5°C and +25°C.	
Shelf Life	18 months when stored as recommended in original unopened containers.	

Necessary Tools

- Geared cartridge gun, smoothing tools such as illbruck AA311.

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.

Joint Design Considerations

- Joint design to be in accordance with BS 6093.
- For the purposes of joint width calculation to ISO 11600, the maximum movement capability of FA870 is 20%.
- Minimum joint width should normally not be less than 5 mm.
- Typical maximum joint width of 30 mm, however, for all large joints (greater than 30 mm), please contact tremco illbruck to discuss project specifics.



FA870

Premium Natural Stone Silicone



Usage / Purpose

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

Key Benefits

- A high performance silicone sealant developed specifically for the sealing of natural stone whereby tremco illbruck guarantees no migratory staining
- Good resistance to UV light, ageing and weathering
- Contains fungicide to prevent mould growth - suitable for sanitary & swimming pool surround applications
- Rapid curing formulation - skins within 10- 20 minutes
- Chemically neutral, not corrosive and very low odour
- Compatible with most construction materials

Premium Natural Stone Silicone

- Width to depth ratio should typically be 2:1.
- Minimum width to depth ratio should typically be 1:1. Please note MAF is reduced at smaller width to depth ratios.
- The minimum contact area with any substrate (including for fillet joints) should be determined by the quality of the bond. If in doubt please contact tremco illbruck.
- PE backing rod should be used in all movement joint applications.

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.
- For non-porous substrates use cleaner AT200, do preliminary test.
- Use a brush to remove loose particles from joints.
- For plastics and powder coatings, clean with AT115 and conduct preliminary tests to confirm compatibility.

Priming

- FA870 adheres well to most surfaces – please refer to primer table for best results.

Primer Table

Bricks, Concrete & Stone	
Natural Stone	+, AT101
Concrete	AT101
Fibre Concrete	AT101
Brick	AT101
Metals	
Aluminium	+
Aluminium Anodised	+
Aluminium Powder Coating	+, test
Galvanised Steel	+, AT105, AT120
Stainless Steel	+, AT105, AT120
Copper	+, AT105, AT120
Brass	+, AT105, AT120
Iron	+
Glass	
Glass	+
Plastics	
ABS	+, AT105, AT120
GRP Polyester*	+
Polyamide*	+, AT120
Polycarbonate*	+, AT105, AT120
Polystyrene*	AT105, AT120
Sanitary Acrylic*	AT105, AT120, AT160
Acrylic Glass PMMA	
PVC Rigid*	+, AT160
PVC Soft Sheet/Film	
Wood	
Wood Primed*	+
Wood Painted*	AT105, AT120
Wood Painted Acrylic*	+
Wood Stained*	AT105, AT120
Tiles	
Glazed Tiles	+
Unglazed Tiles	+, AT101
Tiles Reverse Side	
+ = good adhesion can normally be expected without primer. Reference numbers (e.g. AT111) show the type of illbruck primer required to improve adhesion. Where there is no result listed according to substrate please contact technical department. * = Substrates can vary in their surface properties; therefore, adhesion tests prior to use are recommended.	

Joint Backing

- Backing rod is recommended beneath the joint to ensure the sealant is only bonded to two surfaces.

Application

- Use a high quality geared sealant gun to expel the sealant consistently. Cut cartridge nozzle to desired aperture.
- Apply sealant slightly proud of desired level, spray on illbruck smoothing agent AA301.
- Tool off immediately using a jointing tool such as illbruck AA311.

Coverage

Width x Depth (mm)	Linear metres per 310 ml Cartridge
5 x 5	12.4
8 x 6	6.4
10 x 8	3.8
15 x 10	2.0
20 x 12	1.2
25 x 15	0.8

Cleaning

Clean tools or sealant spillage immediately with AT200 Cleaner. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

Please Note

Not suitable for some substrates such as butyl rubber, neoprene, EPDM, bituminous or tar containing surfaces. Contact with bituminous or tar containing surfaces can lead to discolouring and failing adhesion.

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 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

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