

Cl/SfB		Yt4
CAW P22	Uniclass L675:P743	

Description

FA190 is a one part, neutral curing, low modulus, low odour silicone sealant. It is fast curing, ready-to-use, suitable for weather sealing and bonding in construction applications. It has excellent adhesion to most porous substrates including wooden, aluminium and PVC-U window and door frames, concrete.

Colours

Translucent

Packaging

310 ml cartridge (20 per case)

Environmental Considerations

The use of FA190 in the correct application will give an airtight seal in conformity with the requirements laid down in Approved Document L of the Building Regulations for England and Wales.

Technical Information

Characteristic	Standard	Classification
Composition		neutral silicone
Specific Gravity		~ 1.01
Consistency	EN 27390	non-sag
Shore A Hardness	ISO 868	~ 20
Skin Formation Time	23°C, 50% R.H.	~ 6-8 minutes
Cure Rate	23°C, 50% R.H.	~ 4 mm / 1st day
		~ 7.5 mm / 3rd day cumulative
		~ 10 mm / 7th day cumulative
Tack Free Time		~ 35 minutes
Tensile Strength	EN 28339	~ 0.5 MPa
	23°C, 50% R.H.	
Modulus at 100% Elongation	EN 28339	~ 0.3 MPa
	23°C, 50% R.H.	
Elongation at Break	BS EN ISO 8339:2005	~ 260%
Movement Capability	ISO 9047	~ 25%
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

- Cartridge gun and sharp knife.

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.

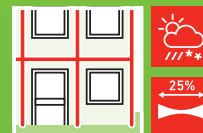
Priming

- FA190 has excellent primerless adhesion to many typical construction materials. For special situations, or if in doubt, please contact tremco illbruck Technical Services Department to discuss your requirements.



FA190

Frame and Façade Silicone



Usage / Purpose

FA190 is ideal for use in: expansion & curtain wall joints, perimeter joints around windows or doors, panel joints between most common substrates, heel and toe beads, polycarbonate glazing and other general joint sealing applications.

Key Benefits

- Meets the requirements of EN ISO 11600 G&F 25LM
- Movement capability: up to 25%
- Long-term resistance to weathering, ageing and UV
- Low modulus formulation ensures minimum strain at joint faces
- Neutral cure: low odour and non-corrosive

Frame and Façade Silicone

Joint Design Considerations

- Joint design to be in accordance with BS 6093.
- For the purposes of joint width calculation in BS 6093, the MAF of FA190 is 50%.
- 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.
- 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

- 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.
- Thoroughly clean with a suitable cleaning solvent using the two cloth method, using one cloth dampened with the cleaning product to lift contaminants and a second clean dry cloth is used to remove any cleaner residue.
- Apply masking tape to prevent contamination of adjacent surfaces.
- Contact tremco illbruck Technical Services Department for further information if required.

Joint Backing

- Deep joints should be filled with an approved material such as FM310, FM320 or FM330 PU Foam. In movement joints, back fill the joint with PR102 backer rod in order to control the depth of sealant and prevent three-sided adhesion.

Application

- Always carry out a test application prior to installation, to confirm compatibility and suitability for use.
- Application should be in accordance with BS 8000:16 - "Code of practice for sealing joints in buildings using sealants".

- Apply between +5°C and +40°C using a conventional skeleton gun or electric/power equipment.
- All beads should be tooled after application to ensure firm, full contact with the joint faces.
- Tooling should commence without delay due to the rapid skinning of the product.

Coverage

Width x Depth (mm)	Linear metres per 310 ml Cartridge
6 x 6	8.6
10 x 6	5.2
10 x 10	3.1
20 x 10	1.6
25 x 12	1.0
Fillet Joint Width x Depth (mm)	Linear metres per 310 ml Cartridge
6 x 6	17.0
10 x 10	6.2

Cleaning

Remove excess sealant immediately with AT200 High Strength Cleaner. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

Please Note

Not recommended for permanent immersion, use on materials where migration of constituents can take place (e.g. certain rubbers) or food contact. Do not use where abrasion or physical abuse will be encountered (e.g. cable tray joints). Not suitable for over painting. Always test before using on sensitive substrates (e.g. marble, architectural stones, etc.). Where staining is a problem, use FA870.

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

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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