



Tremco FS125 Sealant

FS125 is a one-part, neutral curing, low modulus, low odour silicone sealant suitable for perimeter joint sealing applications with high movement capability. It has excellent primerless adhesion to multiple surfaces including masonry, brick, aluminium, PVC-U, polycarbonate, polyacrylate, wood, painted wood, glass and glazed surfaces.

USAGE/ PURPOSE

FS125 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.

TECHNICAL INFORMATION:

CHARACTERISTIC	STANDARD	CLASSIFICATION
Composition		neutral silicone
Classification	EN 15651 ISO 11600	EN15651-1 class 25 LM CC EN15651-2 class 25 LM CC DIN EN ISO 11600-F-25LM DIN EN ISO 11600-G-25LM
Reaction to fire	BS EN 13501-1, Section 11.3	Class E
Specific Gravity	BS EN ISO 1183-1 B	~ 1.40
Consistency	BS EN ISO 7390 (20mm)	0mm, non-sagging
Shore A Harness	BS EN ISO 868	~24
Skin Forming Time	at 23°C, 50% RH	~20-30 minutes
Cure Rate	at 23°C, 50% RH	~1-2mm/ 1st day
Volume Shrinkage	BS EN ISO 10563	~6%
Tensile Strength	BS EN ISO 8339 23°C	~0.5mm ²
Modulus at 100% Elongation	BS EN 1ISO 8339 23°C	~0.40N/mm ²
Elongation at Break	DIN 53504	~600%
Movement Capability	BS EN 1ISO 11600	25%
Elastic Recovery	BS EN ISO 7389	~90%
Application temperature	BS EN 1ISO 7389	+5°C to + 40 °C
Service Temperature Range (Short term)		-40°C to + 150°C



Colours:
 White, Limestone White, Magnolia, Portland Stone, Beige, Grey Anthracite, Signal Black, Clean Grey, Mid Grey, Rich Bronze, Pearl Oyster, Buff, and Brick Red.

Packaging:
 380 ml cartridge (25 per carton)

Tools Required:
 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

Priming:
 FS125 has excellent primerless adhesion to many typical construction materials.

Shelf Life:
 12 months when stored as recommended in original unopened containers

Storage:
 Store in shaded dry conditions between +5°C and +25°C

Health & Safety Precautions:
 Safety data sheet must be read and understood before use.



KEY BENEFITS :

- Meets the requirements of EN ISO 11600 G&F 25LM
- High movement capability
- Long-term resistance to weathering, ageing and extra UV protection
- Low modulus formulation ensures minimum stress at joint faces
- Neutral cure: low odour
- Modern colour range in low sheen finish
- Easy to tool into place and smooth off

JOINT DESIGN CONSIDERATIONS :

- Joint design to be in accordance with BS 6093.
- 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 ICB Waterproofing 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 ICB Waterproofing.
- PE backing rod should be used in all movement joint applications.

PREPARATIONS:

- 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.

JOINT BACKING:

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

APPLICATION:

- Use a good quality 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 AA311.
- Wipe/wash away excess smoothing agent with clean water to avoid streaking.

ADHESION TABLE:

BRICKS, CONCRETE & STONE	
Brick	+, AT101
Concrete	+, AT101
Natural Stone	
Plaster	AT101
METALS	
Aluminium	+
Aluminium Anodised	+, AT120
Aluminium Powder Coated	+, Test
Brass	+
Copper	+
Galavanised Steel	+, AT105, AT120
Iron	+, AT105, AT120
Stainless Steel	+, AT105, AT120
GLASS	
Glass	+
PLASTICS	
ABS	+, AT120
Acrylic Glass PMMA	+, AT120
Polyamide*	+, AT120
Polycarbonate*	+, AT120
Polyester GRP	+
PVC Rigid	+, AT105, AT120
PVC Soft Sheet/Film	+, AT120
Sanitary Acrylic	+, AT120
WOOD	
Wood*	+, Test
Wood Primed*	+, AT120
Wood Painted (Acrylic)	+, AT120
Wood Stained	+, Test
TILES	
Glazed Tiles	+
Tiles Reverse Side	+, AT101
Unglazed Tiles	+, AT101
OTHERS	
Enamel	+

*Substrates can vary in their surface properties, therefore adhesion tests prior to using are recommended

+ = 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.

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PRIMERS AND CLEANERS COVERAGE:

	MAXIMUM LM	MINIMUM LM
Primer: Non-porous substrates		
AT105	1,147	1,037
AT120	958	867
AT150	1,498	1,356
AT160	1,381	1,249
Primer: Porous substrates		
AT101	484	291
AT140	907	544
Cleaner		
AT115	547	495
AT200	164	148

Coverage above is based on a 500ml tin applied to a 10mm deep joint and applied to one side only.

CLEANING:

Clean tools or sealant spillage immediately with illbruck 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 neoprene, butyl rubber, EPDM, bituminous or tar containing surfaces. Contact with bituminous or tar containing surfaces can lead to discolouration and failing adhesion. Not suitable for trafficable joints or areas subject to abrasion. Not suitable for over painting. For safe sealing on natural stone use FA870/FA880. On other sensitive substrates test first.

COVERAGE:

WIDTH X DEPTH(MM)	LINEAR METRES PER 380ML CARTRIDGE
5x3	25.4
5x5	15.2
8x6	8.0
10x8	4.8
15x10	2.6
20x12	1.6
25x15	1.0