

KEY BENEFITS SUMMARY

- Exceptional Weather Resistance:**
Results ultra violent, ozone and exposure and has an anticipated life of 20 years
- Wide Movement Capability:**
up to 50%
- No Priming:**
Good adhesion without primer to most common substrates
- Low Modulus:**
Low modulus characteristic ensure minimum strain at joint faces
- Neutral Cure - Low Odour:**
No risk of any corrosion of substrate by acid, amine generation of associated odours.
- Standards:**
EN ISO 11600 G & F class 25LM
EN 15 651 part 1 and 2 class 25 LM CC



PRODUCT INFORMATION

Description

Tremco FS500 is one-part, neutral curing, low modulus, low odour silicone sealant suitable for perimeter joint sealing applications with high movement capability. It has excellent adhesion to most porous substrates including masonry, brick, aluminium, PVC-U, polycarbonate, polyacrylate, wood, glass and glazed surfaces.

Usage / Purpose

- Expansion & curtain walls joints
- Perimeter joints around windows or doors
- Panel joints between most common substrates
- Heel and toe beads
- Polycarbonate glazing
- Other general joint sealing applications

Colour

Black, white, brown and grey. Other colours on request — subject to availability and minimum order quantity. Please see our colour sample cards.

Packaging

310 ml cartridge (20 per case)
600 ml sausage (20 per case)

Storage

Store in original unopened packaging, in dry conditions between +5°C and +25°C.

Availability

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

Shelf Life

12 months when stored in original unopened packaging

TECHNICAL INFORMATION

Property	Test Method	Result
Composition		neutral alkoxy silicone
Specific Gravity	EN ISO 1183-1	1.38 g/cm ³
Skining Formation at 23°C / 50% RH		45 - 60 minutes
Curing Rate		24 h approximately 2 mm 72 h approximately 4 mm
Movement Capability	EN ISO 9047	± 50%
Slump / Sag	EN ISO 7390	0 mm
Hardness (Shore A)	EN ISO 868	24
Tensile Strength	DIN 53 504 S2	1.5 N/mm ²
Ultimate Elongation	DIN 53 504 S2	600%
Modulus at 100% Elongation	EN ISO 8339	0.3 - 0.4 N/mm ²
Elastic Recovery	EN ISO 7389	approximately 90%
Fire Classification	EN 13 501-1/ DIN 4102-2	Class E /B2
Application Temperature		+5°C to +40°C
Temperature Resistance		-40°C to +150°C

FS500

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Chemical Resistance

Resistant to dilute bases, salt spray and short term exposure to most common industrial solvents and hydrocarbon based products (may cause softening / swelling).

USAGE GUIDELINES

Joint Design Consideration

- Joint design to be in accordance with BS 6093
- For the purpose of joint width calculation in BS 6093 the MAF of Tremco FS500 is 50%
- Width to depth ration 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.

Surface Preparation

- Loose friable material must be removed and arrisses made good.
- Joint faces should be clean of dust and free from substances likely to impair adhesion.
- Metal surfaces should be degreased with solvent.

Priming

- Priming is usually not required on glass, anodised aluminium, galvanised steel, GRP, PVCU, polycarbonates, polymethacrylates, ABS, aluminium, concrete and brickwork.
- For particular substrate primer recommendation or substrates not mentioned above, please contact Tremco illbruck.
- A side adhesion trial is recommended to ensure substrate compatibility before commencement of main installation.

Method of Application

- Application should be in accordance with BS 8000:16 - "Code of practice for sealing joints in buildings using sealants".
- All beads should be tooled immediately after application to ensure firm, full contact with join face.
- Use a conventional skeleton gun.

Coverage Rate (per 310 ml ctg)

Depth	Width	6 mm	10 mm	20 mm	25 mm
6 mm		8.6	5.2	X	X
10 mm		X	X	1.6	X
12 mm		X	X	X	1.0

Fillet joints triangular cross sections
6 mm x 6 mm = 17 10 mm x 10 mm = 6
(Approximate linear meters per 310 ml cartridge)

Cleaning

Immediately remove all excess sealant and smear adjacent to the joint (use masking tape where appropriate). Cured sealant can only be removed by abrasion.

Health & Safety Precautions

Product Safety Data Sheet must be read and understood before use.

LIMITATIONS

Tremco FS500 is NOT recommended for:

- Permanent immersion
- Use on materials where migration of constituents can take place (e.g. certain rubbers)
- Food contact
- Use where abrasion or physical abuse will be encountered (e.g. trafficable joints)
- Over painting
- On sensitive substrates (e.g. marble, architectural stones, etc.) without prior testing for staining.

Note: where staining is a problem, we recommend the use of high performance silicone FA870 or FA875 if suitable for the application in question.

Environmental Considerations

The use of Tremco FS500 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 Service

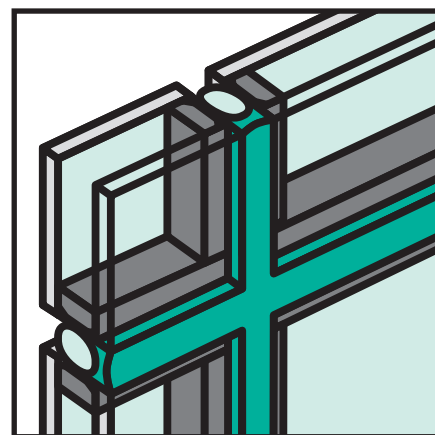
Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products.

For more detailed information, service and advice, please call Customer service on 01942 251400.

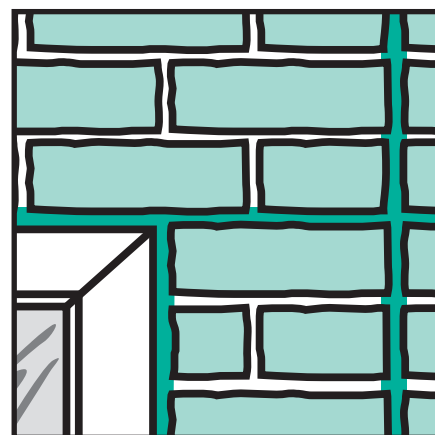
Guarantee / Warranty

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.

Application Examples



Curtain wall application



Window perimeter and wall expansion joint

