

FS703

Fire Resistant Silicone Sealant

09-04-2025 / V 1

Description

FS703 is a low modulus, neutral cure, silicone sealant, suitable for linear gaps sealing in order to reinstate the fire performance in compartment walls & floors.



Features and Benefits

- Up to 4 hours fire resistance - Tested to EN 1366-4
- Tested in gaps 10 - 220mm
- Ideal for joints in flexible walls, rigid walls & floors
- Air pressure tested up to 600 Pa
- Superior elasticity
- Excellent tooling properties
- UV & weather resistance
- 20% movement tested (together with FJ203 Fire Rope)
- F-EXT-INT-CC-25LM

Usage Purpose

FS703 is designed to reinstate the fire performance of compartment walls and floors, by fire sealing linear joints left between different substrates.

FS703 Silicone is tested for many different applications and substrates:

- Static linear joints (masonry to masonry / rigid wall / rigid floor / flexible wall)
- Movement joints (20%) with FJ203 Fire Rope

Typical areas of use include: health and leisure facilities, schools, universities, modular construction, commercial buildings, hospitals, retail and industrial units, train stations, nuclear power plants, etc...

Packaging

310 ml cartridges (12 per box)

600 ml sausages (12 per box)

Available Colour

White.

Grey & Black are available on request (may be subject to minimum order quantities).

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Storage

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

Certificates & Approvals

ETA 20/1215
 CE 2812-CPR-JA5052
 CF5326

Technical Characteristics

Viscosity		Thixotropic
Composition		Neutral cure silicone sealant (alcoxy)
Acoustic Rating	EN ISO 10140:2-2010	Up to 66 dB
Cure Rate	+23 °C / 50 % RH	~ 1.5mm/day
Specific Gravity	ISO 1183-1	~ 1.4
Reaction To Fire	EN 13501-1	Euroclass E
Durability	EN 13162, EN 14303, EN ISO 1519	Type X: intended for use at conditions exposed to weathering (also covers types Y1, Y2, Z1, Z2)
Skin Formation Time	+23 °C / 50 % RH	~ 25 min
Air Permeability	EN 1026	Air pressure tested up to 600 Pa
Maximum Allowable Deformation (MAD)	ISO 11600	25%
Application Temperature		+5°C to +40°C
Elongation At Break	EN ISO 8339, method A DIN 53504 S2	~ 250% ~ 600%

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Technical Characteristics

Tensile Strength	EN ISO 8339, method A at 100%	~ 0.4 N/mm ²
	DIN 53504 S2 at 100%	~ 0.45 N/mm ²
	EN ISO 8339 A -20°C at 100%	~ 0.4 N/mm ²
	EN ISO 8339 A -30°C at 100%	~ 0.5 N/mm ²
	EN ISO 8339, method A at break	~ 0.5 N/mm ²
	DIN 53504 S2 at break	~ 1.6 N/mm ²
Elastic Recovery	EN ISO 7389, method A at 100%	~ 90%
Shore A Hardness	ISO 868	~ 24
Movement Capability	ISO 9047	25%
	ISO 11600	25LM
Service Temperature		-40°C to +150°C
Environmental Performance		EPD (Generic Silicone Sealant EPD from FEICA) EMICODE EC1+ M1
Storage		Store in dry shaded conditions between +5°C and +30°C.
Shelf Life		12 months when stored as recommended in original unopened containers.
Cleaning		Immediately remove all excess sealant and masking tape before cure. Cured sealant can only be removed mechanically if surface type permits.
Consistency	ISO 7390 (20mm)	0 mm, no sagging

Substrate Preparation

All surfaces must be clean and sound, free from dirt, grease and other contamination.

Wood, plaster and brick may be damp but not saturated or exposed to running water during cure.

Porous or metallic surfaces may require priming prior to application.

Necessary Tools

Sealant caulking gun

Sealant profiling tool/spatula

Masking tape (only if a decorative edge is required)

Protective Equipment

Ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

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Preparation

Check specification is suitable for fire rating and gap size required.

If decorative finish is required to surrounding substrates, please use a masking tape.

Application

Insert required backing material (refer to Technical Information), oversized to joint width to ensure stability, to provide correct depth of seal.

A light water spray will aid adhesion if a rock mineral fibre backer has been applied.

Using a suitable tool, cut nozzle of cartridge to bead size and angle required.

Gun sealant into gap to required depth by applying an even pressure to the trigger.

Work and tool to a smooth finish immediately with a wet profiling tool or spatula.

Drying Time

240 minutes

Coverage

To determine quantity of sealant required, calculate as following example (in mm):

$(\text{Gap Width} \times \text{Depth} \times \text{Total Length}) / \text{product packaging} = \text{N}^{\circ} \text{ of units}$

Tool Cleaning

Immediately remove all excess sealant and masking tape before cure. Cured sealant can only be removed mechanically.

Please Note

Do not use around CPVC pipes.

If used around Pegler X-Press Carbon Steel pipes, the pipe manufacturer should be consulted, and their recommendations followed.

Maintenance

No maintenance required after installation. Routine inspection recommended to ensure no damage to the system.

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, 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.

Technical Data Sheet

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Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

It is a requirement of the installer to ensure suitability and compatibility of all elements before installation commences and that compliance can be achieved as required.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited 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

Certification

