

FS703

Fire Resistant Silicone Sealant

11-01-2024 / V 1

Description

FS703 is a low modulus, neutral cure silicone sealant. Suitable for use within linear gap seals in both walls and floors, FS703 will reinstate compartment lines where discontinuities, breaches or movement gaps have been left.



Features and Benefits

- Up to 4 hours fire resistance - Tested to EN 1366-4.
- Tested in gaps 10 - 220 mm.
- Ideal for joints in rigid walls & floors, windows & door frames.
- Airtight up to 600 Pa.
- Superior elasticity.
- Excellent tooling properties.
- UV & weather resistance.
- 25% Movement capability according to BS EN ISO 11600.
- 20% movement when used with FJ203 as a weather seal.

Usage Purpose

FS703 is suitable to fire seal joints in compartment walls and floors:

- Static linear joints (masonry to masonry/rigid wall/rigid floor)
- Window & door joints (masonry to timber/steel)
- Timber and steel interfaces
- Movement joints (20%) with FJ203 Fire Rope

Packaging

310 ml cartridges (12 per box)
600 ml sausages (12 per box)

Storage

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

Shelf Life

12 months when stored as recommended in original unopened containers.

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Available Colour

White, grey or black.

Certificates & Approvals

- 2812-CPR-JA5052
- Certifire CF5326

Technical Characteristics

Elongation At Break	ISO 8339, 23°C	~ 250%
Shore A Hardness	DIN 53505 / ISO 868	~ 24
Acoustic Performance		66db
Air Permeability	EN 1046	Airtight up to 600 Pa
Application Temperature		+5°C to +40°C
Cleaning		Immediately remove all excess sealant and masking tape before cure. Cured sealant can only be removed mechanically if surface type permits.
Composition		Neutral cure silicone sealant (alcoxy)
Consistency	ISO 7390 (20mm)	0 mm, no sagging
Cure Rate	Internal test at 23 °C / 50 % RH	~ 1.5 mm/day
Elastic Recovery	EN ISO 7389, method A at 100%	~ 90%
Fire Performance	EN 13501-2	Up to EI 240
Maximum Allowable Deformation (MAD)	ISO 11600	25%
Modulus At 100 % Elongation	ISO 8339, 23°C	~ 0.4 N/mm ²
Movement Capability	ISO 9047 ISO 11600	25% 25LM
Service Temperature		-40°C to +150°C
Skin Formation Time	Internal test at 23 °C / 50 % RH	~ 25 min
Specific Gravity	DIN 52451-A	~ 1.4 g/cm ³
Tensile Strength	EN ISO 8339, method A at 100%	~ 0.4 N/mm ²
	DIN 53504 S2 at 100% EN	~ 0.45 N/mm ²
	ISO 8339 A -20°C at 100% EN	~ 0.4 N/mm ²
	ISO 8339 A -30°C at 100% EN	~ 0.5 N/mm ²
	ISO 8339, method A at break DIN 53504 S2 at break	~ 0.5 N/mm ² ~ 1.6 N/mm ²
Touch Dry / Skin Formation Time		240
Viscosity		Thixotropic

Preparation

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

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- If a clean line is required on adjoining substrates, masking tape should be used.
- Check specification is suitable for fire rating and gap size required.

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.

Substrate Preparation

All surfaces must be clean and sound, free from dirt, grease and other contamination. Wood 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. If a clean line is required on adjoining substrates, masking tape should be used.

Coverage

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

$(\text{Gap Width} \times \text{Depth} \times \text{Total Length}) / 310 = \text{N}^{\circ} \text{ of cartridges}$

For further guidance on application methods, and material requirements, please contact Tremco CPG UK Limited Technical Services Department.

Tool Cleaning

Immediately remove any masking tape and all excess sealant. Cured sealant can only be removed mechanically if surface type permits.

Maintenance

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

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Protective Equipment

Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling and use of this product. For full recommendation, refer to safety data sheet.

Technical Data Sheet

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Please Note

- Do not use around CPVC pipes; for this specific application, please use FS719 HP Blue for CPVC.
- If used around Pegler X-Press Carbon Steel pipes, the pipe manufacturer should be consulted, and their recommendations followed.

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.

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.

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.

Technical Data Sheet

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Certification



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