

CI/SfB	(29)	(k2)
CAW P10		
Uniclass JP10:L68114		

Product Information

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.

Usage / Purpose

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

- Static linear joints (masonry to masonry/rigid wall/rigid floor/flexible wall)
- Window & door joints (masonry to timber/steel)

Colours

White.

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

Packaging

310 ml cartridges (12 per box)

600 ml sausages (12 per box)

Availability

Direct from Tremco CPG UK Limited (see details on this TDS).

Usage Guidelines

Always read SDS, pre-application guidance and relevant application detail prior to application. Ensure the latest documents are downloaded prior to every project commencement.

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.

Tools

- Sealant caulking gun
- Sealant profiling tool/spatula
- Masking tape (if decorative finish is required to surrounding substrates)

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.
- 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.

Installation

- 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.

Coverage

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

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

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

Cleaning

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

Nullifire
Smart Protection

FS703

**Fire Resistant
Silicone Sealant**

up to
**240
mins**



Key Benefits Summary

- Up to 4 hours fire resistance Tested to EN 1366-4
- Tested in gaps 10 - 220 mm
- Ideal for joints in flexible walls, rigid walls & floors, windows & door frames
- Airtight up to 600 Pa
- Superior elasticity
- Excellent tooling properties
- UV & weather resistance

CE
ETA 20/1215

certifire
APPROVAL N° CF5326



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Maintenance

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

Health & 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.

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.

Typical Details



FS703 plasterboard to concrete linear gap seal with PE backer rod: EI120



FJ203 bonded with FO142/3 Intutac + FS703 for waterproofing: EI240



FS703

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Technical information

Property	Test Method	Result
Properties (Typical Values)		
Composition		Neutral cure silicone sealant
Air Permeability	EN 1046	Airtight up to 600 Pa
Maximum Allowable Deformation (MAD)	ISO 11600	25%
Specific Gravity	ISO 1183-1	~ 1.4
Consistency	ISO 7390 (20 mm)	0 mm, no sagging
Hardness Shore A	ISO 868	~ 24
Skin Formation Time	23°C, 50% RH	~ 20-35 min
Cure Rate	23°C, 50% RH	~ 1-2 mm/day
Modulus at 100% Elongation	ISO 8339, 23°C	~ 0.4 N/mm ²
Tensile Strength	ISO 8339, 23°C	~ 0.5 N/mm ²
Elongation at Break	ISO 8339, 23°C	~ 250%
Elastic Recovery	ISO 7389	~ 90%
Application Temperature		+5°C to +40°C
Service Temperature		-40°C to +150°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	

Backing Material

This section relates to the change of material used to back a seal or sealant as part of a sealing system for apertures for penetrations of multiple services and linear joint seals. Backing material may not be omitted unless full fill is achieved.

Backing Material	Effect	Comment
Polyethylene / Polyurethane Rod	= or +	May be replaced by mineral wool
Glass Wool	= or +	May be replaced by stone wool or ceramic wool
Stone Wool	= or +	May be replaced by ceramic wool
Ceramic Wool (including ceramic alternatives)	=	May only be replaced by alternative material of equivalent material properties, i.e. density, thermal conductivity, melting point, shrinking, reaction to fire classification- for example alkaline earth silicate fibres
Increase in backing material depth	+	Acceptable for class A1 and A2 materials.
Decrease in backing material depth	-	Not acceptable.



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Performance Data

Fire performance in accordance with EN1366-4 testing.

Key to abbreviations: E = Integrity, I = Insulation, AAC = Aerated Concrete, H = Horizontal, V = Vertical, T = Horizontal on a vertical plane, W = Width range, X = no Movement fire tested (<= 7.5%), M = Movement fire tested, F = Joint tested in backing material, B = no Joint tested in backing material (or combustible backing material used, no joint required to be tested).

Substrate	Backing Material	Installation	Sealant Depth (in mm)	Classification		
				Integrity & Insulation	Application & Usage	Gap Width Range
FLOOR JOINTS						
FS703 Linear Joint Seals in Rigid Floors 150 mm thick (min.)						
AAC-AAC	Rock Fibre Backer	Top Side	3	EI240	H - X - F	W 5-110
AAC-AAC	Rock Fibre Backer	Top Side	3	EI120	H - X - F	W 5-220
AAC-AAC	Rock Fibre Backer	Top Side	20	EI120	H - X - F	W 5-80
AAC-AAC	Rock Fibre Backer	Top Side	10	EI240	H - X - F	W 5-10
AAC-AAC	Rock Fibre Backer	Top Side	35	EI240	H - X - F	W 5-35
AAC-AAC	PE Backer Rod	Top Side	6	E180 EI60	H - X - F	W 5-12
AAC-AAC	PE Backer Rod	Top Side	15	E240 EI90	H - X - F	W 5-30
AAC-AAC	PE Backer Rod	Top Side	25	E240 EI90	H - X - F	W 5-50
AAC-Steel	PE Backer Rod	Top Side	6	E180 EI30	H - X - F	W 5-12
AAC-Steel	PE Backer Rod	Top Side	15	E240 EI30	H - X - F	W 5-30
AAC-Steel	PE Backer Rod	Top Side	25	E120 EI30	H - X - F	W 5-50
AAC-AAC	Rock Fibre Backer	Bottom Side	20	E120 EI90	H - X - F	W 5-80
WALL JOINTS						
FS703 Linear Joint Seals in Flexible Walls 145 mm thick (min.)						
Drywall-Concrete	PE Backer Rod	Both Sides	15	EI120	V - X - F	W 5-30
Drywall-Concrete	PE Backer Rod	Both Sides	25	EI120	V - X - F	W 5-40
WALL JOINTS						
FS703 Linear Joint Seals in Rigid Walls 150 mm thick (min.)						
AAC-AAC	Rock Fibre Backer	Both Sides	5	EI240	V - X - F	W 5-10
AAC-AAC	Rock Fibre Backer	Both Sides	5	EI240	T - X - F	W 5-10
AAC-AAC	Rock Fibre Backer	Both Sides	17.5	EI240	V - X - F	W 5-35
AAC-AAC	Rock Fibre Backer	Both Sides	17.5	EI240	T - X - F	W 5-35
AAC-AAC	PE Backer Rod	Both Sides	6	EI240	V - X - F	W 5-12
AAC-AAC	PE Backer Rod	Both Sides	6	EI240	T - X - F	W 5-12
AAC-AAC	PE Backer Rod	Both Sides	15	EI240	T - X - F	W 5-30
AAC-AAC	PE Backer Rod	Both Sides	25	EI240	V - X - F	W 5-50
AAC-Timber	PE Backer Rod	Both Sides	6	EI120	V - X - F	W 5-12
AAC-Timber	PE Backer Rod	Both Sides	15	E180 EI120	V - X - F	W 5-30
AAC-Steel	PE Backer Rod	Both Sides	6	E240 EI60	T - X - F	W 5-12
AAC-Steel	PE Backer Rod	Both Sides	15	E240 EI90	V - X - F	W 5-30
AAC-Steel	PE Backer Rod	Both Sides	15	E240 EI90	T - X - F	W 5-30
AAC-Steel	PE Backer Rod	Both Sides	25	E240 EI90	T - X - F	W 5-50