Product Information

Description

FS701 is a one-part fire resistant joint sealant.

Usage / Purpose

FS701 cures to give a firm, but flexible seal in low movement fire rated joints to seal between joints in FB747 FR Coated Batts, substrate to penetration service applications and pointing up of penetration seals. FS701 Sealant may be used to provide a linear joint or gap seal with specific supporting constructions and substrates and as a penetration seal.

SUBSTRATES

- Masonry to masonry
- Masonry to timber
- Masonry to steel
- FB747 to flexible wall
- FB747 to rigid wall
- Flexible wall to flexible wall
- Flexible wall to rigid floor
- Rigid floor to rigid floor
- Rigid wall to rigid wall

Colours

White & grey

Packaging

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

Availability

Direct from tremco illbruck (see back of leaflet for address and telephone details).

USAGE GUIDELINES

Necessary Tools

Standard cartridge/skeleton gun; sharp knife; palette knife or spatula

Joint Design Considerations

Refer to published test results for guidance on joint design.

Preparation

- All surfaces must be clean and sound, free from dirt, grease and other contamination.
- Wood plaster and brick may be damp but not running wet.
- Use mechanical abrasion to clean porous surfaces if necessary before application.

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

Priming

Priming is not required with most construction materials but porous surfaces should be primed with illbruck WD110 PVA Adhesive.

Application

- Insert backing material (refer to performance on backing materials), oversized to joint width to ensure stability, to provide correct depth of seal (minimum 6 mm).
- For double seal: Use PE Backing Rod.
- Using a sharp knife, 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.
- Tool to a smooth finish immediately with a wet palette knife or spatula.

Coverage

To determine quantity of sealant required, calculate as follows (in mm) (Double Seal):

For further guidance on application methods, and material requirements, please contact tremco illbruck Technical Services Department.

Cleaning

Immediately remove all excess sealant adjacent to the joint (use masking tape where appropriate). Clean tools in hot water.

Storage

Store in dry conditions between +5°C and +40°C. Do not allow to freeze.

Shelf Life

18 months when stored in its original unopened containers.

Health & Safety Precautions

Safety data sheet must be read and understood before use.





Water-borne Intumescent Acrylic Sealant





Key Benefits Summary

- Can achieve up to 4 hours joint fire resistance tested in accordance with EN 1366-3, EN 1366-4 and ETAG 026
- Ideal for sealing low movement joints - suitable for gaps up to 50 mm wide
- Suitable for rigid and flexible walls
- Used for sealing FB747 Coated Fire Batts
- Acoustics up to 61 dB
- Air seal up to 600 Pa
- Single sided seal tested
- Easily paintable







Technical information

Property	Test Method	Result
Composition		An intumescent acrylic mastic
	Fire Performance	
Period of Fire Resistance	BS EN 1366-3	up to 4 hours
Acoustic Rating	BS EN ISO 10140:2-2010	up to 61 dB
Air Permeability	BS EN ISO 1023:2	Air tight up to 600 Pa
Depth of Sealant Required	width up to 50 mm	50% of width (2:1 ratio)
	Properties (Typical Values)	
Solids Content		82% to 85%
pH Value		8.8 to 10.0
Flash Point		n/a
Specific Gravity		1.5 to 1.6
Viscosity		Thixootropic
Tensile Strength		170 kN/m² (0.17 MPa)
Touch Dry	at 20°C	30 minutes
CureThroughTime	at 20°C- 20 mm depth	20 days

Performance

Minimum 120 mm Thick Flexible or Rigid Wall. Sealant to Both Sides of the Wall.			
Penetrations Specification	Depth (mm)	Backing material	Classification
Copper/Steel Pipe 15 mm Ø, 0.8 mm- 7.4 wall thickness	10 mm annulus x 25 mm deep	N/A	E120 C/U EI20 C/U
Copper/Steel Pipe 40 mm Ø, O.8 mm-14.2 mm wall thickness	10 mm annulus x 25 mm deep	N/A	E120 C/U EI15 C/U
Copper/Steel Pipe 40-159 mm Ø, 1.8 mm-14.2 mm wall thickness	10 mm annulus x 25 mm deep	N/A	E120 C/U
Copper/Steel Pipe 40 mm Ø, O.8 mm-14.2 mm wall thickness*	10 mm annulus x 25 mm deep	N/A	E120 C/U EI90 C/U
Copper/Steel Pipe 40-159 mm Ø, 1.8 mm-14.2 mm wall thickness	10 mm annulus x 25 mm deep	N/A	E120 C/U EI20 C/U

Minimum 150 mm Thick Rigid Wall, Horizontally Orientated to One Side of the Floor. Sealant to both sides of the wall			
Penetrations Specification	Installed Both Faces	Backing material	Classification
Cables up to 21 mm	490 mm long x 100 mm high x	70 mm thick, 80 kg/m ²	E120 W190
Perforated Cable Tray 450 mm x 50 mm	25 mm deep		
Cables upto 21-50 mm	10 mm annulus x 25 mm deep	N/A	E90 E160

Linear Joint Seals. Minimum 120 mm Thick Flexible or Rigid Wall. Sealant Flush to Both Faces of the Wall			
Depth (mm)	Backing material	Classification	
12.5 mm (both side)	PE backing rod	EI120-V-X-F-W 00 to 20	







Substrate	Depth (mm)	Classification
Gypsum board / Steel head track	25 mm (both side)	EI120-T-X-F-W 00 to 20
Gypsum board / Steel head track	25 mm (both side)	EI120-V-X-F-W 00 to 50

Linear Joint Seals. Mini	Linear Joint Seals. Minimum 100 mm Thick Rigid Wall, Vertically Orientated Sealant to One Side of the Wall			
Substrate	Depth (mm)	Backing material	Classification	
Concrete - Concrete	10 (single side)	PE Backing Rod	E120 EI45-V-X-F-W 00 to 20	
Concrete - Concrete	25 (single side)	PE Backing Rod	E120 EI60-V-X-F-W 00 to 50	
Concrete - Steel	10 (single side)	PE Backing Rod	E120 EI20-V-X-F-W 00 to 20	
Concrete - Steel	50 (single side)	PE Backing Rod	E45 El30-V-X-F-W 00 to 50	
Concrete - Softwood	10 (single side)	PE Backing Rod	E30 El20-V-X-F-W 00 to 20	
Concrete - Softwood	50 (single side)	PE Backing Rod	EI45-V-X-F-W 00 to 50	

Linear Joint Seals. Minim	Linear Joint Seals. Minimum 150 mm Thick Rigid Floor, Horizontally Orientated Sealant to One Side of the Floor			
Substrate	Depth (mm)	Backing material	Classification	
Concrete - Concrete	10 (single side)	PE Backing Rod	E240 EI45-H-X-F-W 00 to 20	
Concrete - Concrete	25 (single side)	PE Backing Rod	E240 El90-H-X-F-W 00 to 50	
Concrete - Steel	10 (single side)	PE Backing Rod	E120 EI20-H-X-F-W 00 to 20	
Concrete - Steel	50 (single side)	PE Backing Rod	E240 EI90-H-X-F-W 00 to 50	
Concrete - Softwood	10 (single side)	PE Backing Rod	EI30-H-X-F-W 00 to 20	
Concrete - Softwood	50 (single side)	PE Backing Rod	EI45-H-X-F-W 00 to 50	

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	Effect	Comment
No Backing Material	= or +	May be replaced by PE rods, mineral wool or any of the below
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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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 Services 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.

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