
CERTIFICATE OF APPROVAL

No CF 5347

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

Tremco Illbruck

Coupland Road, Hindley Green, Wigan, WN2 4HT
Tel: 01942 251400

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT

FS702 Fire Rated Acrylic Sealant

TECHNICAL SCHEDULE

**TS40 Linear Gap Sealing
Systems & TS03 Penetration
Sealing Systems**

**Signed and sealed for and on behalf of Exova (UK) Limited trading as
Warrington Certification**



Paul Duggan
Certification Manager



Issued: 4th August 2015
Reissued: 12th September 2018
Valid to: 10th September 2023

Page 1 of 13



CERTIFICATE No CF 5347

TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant

1. This approval relates to the use of FS702 Fire Rated Acrylic Sealant for the fire protection of movement joints within walls and floors and as a penetration sealing system in floors. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness for FS702 Fire Rated Acrylic Sealant required to provide fire resistance periods in accordance with BS 476: Part 20: 1987 or in accordance with BS EN 1366-4:2006 (as indicated in the Approval Matrix) up to 240 minutes for wall and floor constructions. The scope of certification complies with the guidelines stated in the ASFP Red Book: 3rd Edition for 3rd party certification schemes.
2. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
3. This certification will set out our conclusion as to whether the information provided is sufficient to demonstrate compliance with the relevant standard. We cannot, and will not, opine upon whether Building Control will regard the certification as sufficient for any purpose. In accepting our quote you agree to us providing you with the certification without any guarantee as to whether it will be accepted by Building Control or any other authority as evidence of compliance with the Building Regulations or other relevant standards.
4. The product is approved on the basis of:
 - i) Initial type testing
 - ii) Audit testing at the frequency specified in TS40
 - iii) A design appraisal against TS40
 - iv) Inspection and surveillance of factory production control
 - v) Certification of quality management system to ISO 9001: 2008
5. The masonry, block or concrete walls and floors shall be at least 150mm thick and have at least the same fire rating as that required for the joint seal. Where appropriate timber stud wall elements must be at least 145mm thick.
6. Masonry, block and concrete gap faces will be within the density range of 450 to 2300kg/m³, and gap faces will be free from loose or flaking material.
7. Backing or support materials may be polyethylene, polyurethane or polyurethane foam, mineral or ceramic fibre insulation.
8. The movement capabilities of the system have been evaluated as per BS EN1366-4:2006 + A1: 2010 and detailed in the specific certificate below
9. The approval relates to ongoing production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Further information regarding the details contained in this data sheet may be obtained from Nullifire Ltd. (Tel: 02476 855000).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS476: Pt 20 Up to 120 min Walls

Wall (masonry, block or concrete at least 150mm thick) Installations in Vertical or Horizontal Orientation						
Product Name			FS702 Fire Rated Acrylic Sealant			
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Wall Constructions	Autoclaved aerated concrete/concrete/ masonry/block	10	10	Polyethylene/ polyurethane/ mineral fibre/ ceramic fibre 15 mm diameter/square (uncompressed)	120	120
		15	15	Polyethylene/ polyurethane/ mineral fibre/ ceramic fibre 20 mm diameter/square (uncompressed)		
		20	20	Polyethylene/ polyurethane/ mineral fibre/ ceramic fibre 25 mm diameter/square (uncompressed)		
		25	25	Polyethylene/ polyurethane/ mineral fibre/ ceramic fibre 30 mm diameter/square (uncompressed)		
		30	12	Stonewool (45kg/m³) 25 mm deep	120	-
		110	3	Stonewool (60kg/m³) 144 mm deep	120	120
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant may be applied to either face of the wall.				
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:		Not evaluated by this approval
Acoustic Rating:		Not evaluated by this approval		Movement Capability:		Not evaluated by this approval

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN 1366-4: 2006 Up to 240 min Walls

Wall (masonry, block or concrete at least 150mm thick) Installations in Horizontal Orientation						
Product Name			FS702 Fire Rated Acrylic Sealant			
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Wall Constructions	Autoclaved aerated concrete/concrete/ masonry/block	10	5	Min 25mm deep x 12mm wide (uncompressed) 64Kg/m ³ density, Earthwool mineral fibre batt. (may include butt joints)	240	240
		35	17	Min 17mm deep x 40mm wide (uncompressed) 64Kg/m ³ density, Earthwool mineral fibre batt. (may include butt joints)		
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant should be applied to both faces of the wall				
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN 1366-4: 2006 Up to 240 min Walls

Wall (masonry, block or concrete at least 100mm thick) Installations in Vertical Orientation						
Product Name			FS702 Fire Rated Acrylic Sealant			
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Wall Constructions	Autoclaved aerated concrete/concrete/ masonry/block	35	17.5	PE Backing Rod	240	240
		35	35		240	240
		50	17.5		240	90
	Autoclaved aerated concrete/concrete/ masonry/block – Steel plate	35	17.5		240	120
		35	35		240	90
	Autoclaved aerated concrete/concrete/ masonry/block – Softwood	35	17.5		120	120
		35	35		180	180
	Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant should be applied to both faces of the wall			
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN 1366-4: 2006 Up to 240 min Walls

Wall (masonry, block or concrete at least 150mm thick) Installations in Horizontal Orientation						
Product Name			FS702 Fire Rated Acrylic Sealant			
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Wall Constructions	Autoclaved aerated concrete/concrete/masonry/block	10	5	Min 25mm deep x 12mm wide (uncompressed) 64Kg/m ³ density, Earthwool mineral fibre batt. (may include butt joints)	240 ¹	240 ¹
		35	17	Min 17mm deep x 40mm wide (uncompressed) 64Kg/m ³ density, Earthwool mineral fibre batt. (may include butt joints)		
	Autoclaved aerated concrete/concrete/masonry/block (min 100mm thick)	50	17.5	PE Backing Rod	240 ²	90 ²
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant should be applied to both faces of the wall ¹ Or the unexposed face of the wall ² as denoted by the prefix ¹ or ² .				
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN1366-3: 2009 Up to 120 min Walls

Wall (concrete/aerated concrete/partition at least 130mm thick)					
Product Name		FS702 Fire Rated Acrylic Sealant			
Pipe Size and Type	FS702 Sealant Dimensions	Backing material	Minimum Wall Thickness	Integrity (mins)	Insulation (mins)
*Steel Pipe 60mm $\varnothing$ x 4.5mm wall thickness	0 - 50mm annulus x 6mm deep to both faces	50mm deep Earthwool 64kg/m ³ to both faces	130mm	120	90
*Steel Pipe 160mm $\varnothing$ x 4mm wall thickness	0-50mm annulus x 6mm deep to both faces	50mm deep Earthwool 64kg/m ³ to both faces	130mm	120	30
Cable Box	Penetrations	Backing material	FS702 Sealant dimensions		
Steel cable box 340mm wide x 140mm high x 300mm deep	2 off 450mm x 50mm high performed cable tray. 2 x type 'E' cables, 10 x type 'A1' cables, 10 x type 'A2' cables, 1 x type 'G2' cables	288mm deep Earthwool 64kg/m ³ internally within the cable box	6mm thick to both faces	120	90
Application Technique	The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and the remaining annular space filled as per the specification above. *The 0.7mm GI Sleeve to line the aperture created within the partition.				
Service Coat Back	Not Required				
Walls	The wall shall be a minimum 130mm thick. Drywalls shall comprise 2 layers of 'Type F' Gypsum board to both faces, with minimum 70mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All walls shall have at least the same rating as the pipe closure system.				
Support Requirements	Services shall be rigidly supported via steel angles, hangers or channels not further than 500mm on the unexposed face of the floor				
Resistance to Smoke:	Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:	Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS 476 Pt-20 Floors Up to 120 mins

Floor (concrete/aerated concrete at least 150mm thick)						
Product Name			FS702 Fire Rated Acrylic Sealant			
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Floor Constructions	Aerated concrete/concrete	110	3	Stonewool (60kg/m ³) compressed by 50% and 100 mm deep	120	120
	Aerated concrete/concrete penetrated by 165 mm Ø by 5 mm wall, mild steel pipe	210 Ø	6	Stonewool (45kg/m ³) 25 mm deep	120	0
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant is applied to the upper face of the floor.				
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN 1366-4: 2006 Up to 240 min Floors

Floor (concrete at least 150mm thick)								
Product Name			FS702 Fire Rated Acrylic Sealant					
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)		
Floor Constructions	Aerated concrete/concrete/ masonry/	35	30	PE Backing Rod	120	120		
		35	50		240	240		
	Autoclaved aerated concrete/concrete/ masonry/block – Steel plate	35	30		240	30		
		50	35		240	45		
	Autoclaved aerated concrete/concrete/ masonry/block – Softwood	35	30		240	90		
		35	50		240	180		
	Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant is applied to the upper face of the floor.					
	Resistance to Smoke:		Not evaluated by this approval		Weather Capability:		Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:		Not evaluated by this approval		

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN1366-4: 2006 Up to 240 min Floors

Floor (concrete/aerated concrete at least 150mm thick)						
Product Name			FS702 Fire Rated Acrylic Sealant			
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Floor Construction	Aerated concrete/concrete	200	3	Stonewool (64kg/m³) compressed by 5% and min100 mm deep.(may include butt joints)	180	180
		35	35	Stonewool (64kg/m³) compressed by 23% and min 25 mm deep.(may include butt joints)	240	240
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant is applied to the upper face of the floor.				
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:		Not evaluated by this approval
Acoustic Rating:		Not evaluated by this approval		Movement Capability:		Not evaluated by this approval

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN1366-4: 2006 + A1: 2010 Up to 240 min Floors

Floor (concrete/aerated concrete at least 150mm thick)							
Product Name			FS702 Fire Rated Acrylic Sealant				
Configuration		Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Movement	Integrity (mins)	Insulation (mins)
Floor Construction	Aerated concrete/concrete	100	3	Stonewool (64kg/m ³) compressed by 25% and min100 mm deep.(may include butt joints)	+/- 15% Induced before, during and after the fire test	240	240
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant is applied to the upper face of the floor.					
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:		Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:		BS EN1366-4: 2006 + A1: 2010 +/-15%	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN1366-3: 2009 Up to 120 min Floors

Floor (concrete/aerated concrete at least 150mm thick)					
Product Name		FS702 Fire Rated Acrylic Sealant			
Pipe Size and Type	FS702 Sealant Dimensions	Backing material	Minimum Floor Thickness	Integrity (mins)	Insulation (mins)
*Steel Pipe 50mm $\varnothing$ x 5mm wall thickness	0-50mm annulus x 3mm deep to the unexposed face	100mm deep Earthwool 64kg/m ³	150mm	120	90
*Steel Pipe 220mm $\varnothing$ x 8mm wall thickness	0-50mm annulus x 3mm deep to the unexposed face	100mm deep Earthwool 64kg/m ³	150mm	120	90
Application Technique	The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and the remaining annular space filled as per the specification above. *The 0.7mm steel GI sleeve to line the aperture created within the floor is optional.				
Service Coat Back	Not Required				
Support Requirements	Services shall be rigidly supported via steel angles, hangers or channels not further than 500mm on the unexposed face of the floor				
Resistance to Smoke:	Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:	Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	

CERTIFICATE No CF 5347 TREMCO ILLBRUCK

FS702 Fire Rated Acrylic Sealant - Approval Matrix BS EN 1366-4: 2006 Up to 120 min Walls

Wall (timber stud faced with 2 x 12.5mm layers of plasterboard on each face. Timber studs minimum 95mm wide x 45mm thick and (masonry, block or concrete at least 150mm thick). Installations in Vertical Orientation

Product Name		FS702 Fire Rated Acrylic Sealant				
Configuration		Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Wall Constructions	Masonry, concrete or block element to timber stud element or masonry, block, concrete element to masonry, block, concrete element	40	25	Min 40mm diameter Pe foam rod	120	120
		30	15	Min 50mm deep x 30mm wide (uncompressed) 64Kg/m ³ density, stonewool		
Application Technique		For good adhesion the surfaces of the building element shall be free of any dust or grease and be suitably primed. The sealant should be applied to both faces of the wall				
Limitations		Seal can be used to seal linear gaps between two masonry elements and between masonry elements and timber stud constructions only. The height of any timber stud element should not exceed 1.5m.				
Resistance to Smoke:		Not evaluated by this approval		Weather Capability:	Not evaluated by this approval	
Acoustic Rating:		Not evaluated by this approval		Movement Capability:	Not evaluated by this approval	