

FIREPRO[®] **HIGH EXPANSION** **INTUMESCENT** **SEALANT**

Prevents the spread of smoke and fire



FIREPRO® HIGH EXPANSION INTUMESCENT SEALANT

FIREPRO® High Expansion Intumescent Sealant is an easy to apply water based acrylic emulsion sealant containing graphite.

It reacts to temperatures above 135°C which is used to reinstate the Integrity and insulation rating of compartment walls and floors where penetrated by combustible and non-combustible materials.





Advantages

- Simple solution for sealing cables, combustible pipes and metal pipes with combustible insulation
- Suitable for both walls and floors
- Compatible with cPVC pipes
- Tested in multiple substrates

Description

ROCKWOOL FIREPRO® High Expansion Intumescent Sealant is water based acrylic sealant containing graphite. In the event of a fire the active components provide a high volume expansion and pressure seal closing off the void left by combustible materials.

ROCKWOOL FIREPRO® High Expansion Intumescent Sealant is supplied in 310ml cartridges.

Applications

FIREPRO® High expansion Intumescent Sealant is comprehensively tested for a wide range of applications which include:

- Combustible pipes
- Cables (single cables or bunches of cables)
- Metal pipes insulated with combustible insulation
- Other permanent services

Performance

Standards and approvals

FIREPRO® High Expansion Intumescent Sealant has been tested to BS EN 1366-3: 2009 and BS EN 1366-4: 2006 +A1:2010 and classified to EN 13501-2, providing up to 4 hours fire protection in joints up to 30mm.

FirePro® High Expansion Intumescent Sealant has been CE marked against ETAG026-2.

"FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings. FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation or its affiliates."

FIREPRO® High Expansion Intumescent Sealant is third party accredited through IFC and Certifire.

This product has been authorised for use in LUL surface and sub-surface premises when installed in accordance with this datasheet - please refer to the LUL Approved Product Register website www.LU-apr.co.uk for specific details. LUL Ref. 2454.

Table 1
2 hour dry wall
(min. 120mm
thick)

Service Penetration	Diameter (Ø)	Wall Thickness	Annular Space (mm)	Depth (mm)	Classification
Cables	21	N/A	20	25Φ	EI 120 U/C
PVC Pipes ‡	40	3	10	25Φ	EI 120 U/C
PVC Pipes ¶†	125	7.4	16	25Φ	EI 120 U/C
HDPE	63	7.2	20	25Φ	EI 120 U/C
HDPE	90	9.2	12.5	25Φ	EI 120 U/C
ABS	90	6	12.5	25Φ	EI 120 U/C
Copper / Steel Pipe with Armaflex 32mm CS	60	0.8-14.2	20	25Φ	E 120/EI 90 U/C
Copper / Steel Pipes with Armaflex 16mm CS	15	0.8-7	15	25Φ	EI 120 U/C

Table 2
Wall with Single
50mm FIREPRO®
Ablative Coated
Batt

Service Penetration	Diameter (Ø)	Wall Thickness	Annular Space (mm)	Depth (mm)	Classification
PVC Pipes ‡	125	7.4	20	50	EI 30 U/C
Multi Layer Composite Pipes	110	10	20	50	E45 EI30 U/C
500mm perforated cable tray*	N/A	N/A	20	50	EI 30
Medium Cables*	47	N/A	20	50	EI 45

Table 3
Masonry Wall
(min. 150mm
thick) with Double
50mm FIREPRO®
Ablative Coated
Batt

Service Penetration	Diameter (Ø)	Wall Thickness	Annular Space (mm)	Depth (mm)	Classification
PVC Pipes ‡	125	7.4	20	25Φ	EI 120 U/C
Multi Layer Composite Pipes	110	10	20	25Φ	EI 120 U/C
500mm perforated cable tray*	N/A	N/A	20	25Φ	EI 120
Medium Cables*	47	N/A	20	25Φ	EI 120

Table 4
Rigid Floor (min.
150mm thick)

Service Penetration	Diameter (Ø)	Wall Thickness	Annular Space (mm)	Depth (mm)	Classification
Electrical Cables ϕ	80	N/A	N/A	25 ↑	E120
Non Sheathed Electrical Cables ϕ	24	N/A	N/A	25 ↑	E180
Telecom Cables bundled ϕ	up to 21	N/A	N/A	25 ↑	E180
Copper / Steel Pipe with Armaflex 32mm CS ϕ	159	14.2	20	25	EI 120 U/C
Copper / Steel Pipe with Armaflex 16mm CS ϕ	41	14.2	20	25	E240/ EI 60 U/C
PP Pipes $\phi \ddagger$	110	10.7	20	25 Φ	EI 120 U/C
PP Pipes $\phi \ddagger$	50	2.1	20	25 Φ	EI 240 U/C
PE Pipe $\phi \ddagger$	40	4.1	20	25 Φ	EI 240 U/C
PE Pipe $\phi \ddagger$	125	11.4	20	25 Φ	EI 90 U/C
PVC Pipe $\phi \ddagger$	40	2	20	25 Φ	EI 240 U/C
PVC Pipe $\phi \ddagger$	114	8.1	20	25 Φ	EI 120 U/C

Table 5
Rigid Floor (min.
150mm thick) with
Double 50mm
FIREPRO® Ablative
Coated Batt

Service Penetration	Diameter (Ø)	Wall Thickness	Annular Space (mm)	Depth (mm)	Classification
PVC Pipe $\ddagger$	50	7.4	20	25 Φ	EI 120 U/C
PVC Pipe $\ddagger$	125	7.4	20	25 Φ	EI 120 U/C
Multi Layer Composite Pipes	110	10	20	25 Φ	E120/EI 60 U/C
500mm perforated cable tray*	N/A	N/A	20	25 Φ	EI 120
Medium Cables*	47	N/A	20	25 Φ	EI 120
Multi Service as follows (installed centrally in aperture)					
PE Pipe $\phi \ddagger$	125	7.6	N/A	25 Φ	E120/EI 90 U/C
60 Pipe with Cables ϕ	21	N/A	N/A	25 Φ	E120/EI 90 U/C

Table 6
Linear Joints

Service Penetration	Diameter (Ø)	Wall Thickness	Annular Space (mm)	Depth (mm)	Classification
pvc Pipe ϖ	50	7.4	20	25 Φ	EI 120 U/C

Key to tables

$\ddagger$ = See assessment for other pipe sizes and wall thicknesses within field of application.

*C= All cables coated with 2mm DFT (Dry Film Thickness) of Firepro®

RW = Rigid Wall

ACB = Ablative Coated Batt

CS = Continuous Sustained

Φ = Applied to both faces of seal

↑ = Applied to upper face only

Ψ = Use RW4 as backing material, minimum 30mm deep.

ϕ = Use RWA45 as backing material, minimum 100mm deep.

ϖ = Use PE backing rod

Technical information

Product information

Property	Description
Form	Ready to use thixotropic paste
Cartridge size	310ml
Curing system	Water based
Specific gravity	1.5
Extrusion rate	350g/min
SAG	<3min
Open time	30mins
Tack free time	60mins
Curing time	3 to 5 days
Shore (A) hardness	50
Solids	>80%
Application temperature range	+4°C to +35°C
Service temperature range	-15°C to 70°C
Shelf life	Up to 12 months when stored in unopened cartridges under cool, dry conditions. Avoid Extreme Temperatures

Installation

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

Prepare joint by cleaning as previously detailed and insert backer if required. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill to the required depth. Strike off the sealant flush with the joint sides within five minutes of application, before surface skinning occurs. A small amount of shrinkage will occur on curing. If a flush finish is required, fill the joint slightly proud of the surface to allow for shrinkage.



Important information

The sealant is not intended for application on bituminous substrates or substrates that can exude certain oils and plasticizers or solvents.

The sealant is not recommended for submerged joints or areas exposed to high abrasion.

The sealant is not suitable for food contact or medical applications.

Specification clauses

FirePro® High Expansion Intumescent Sealant is associated with the following NBS clauses:

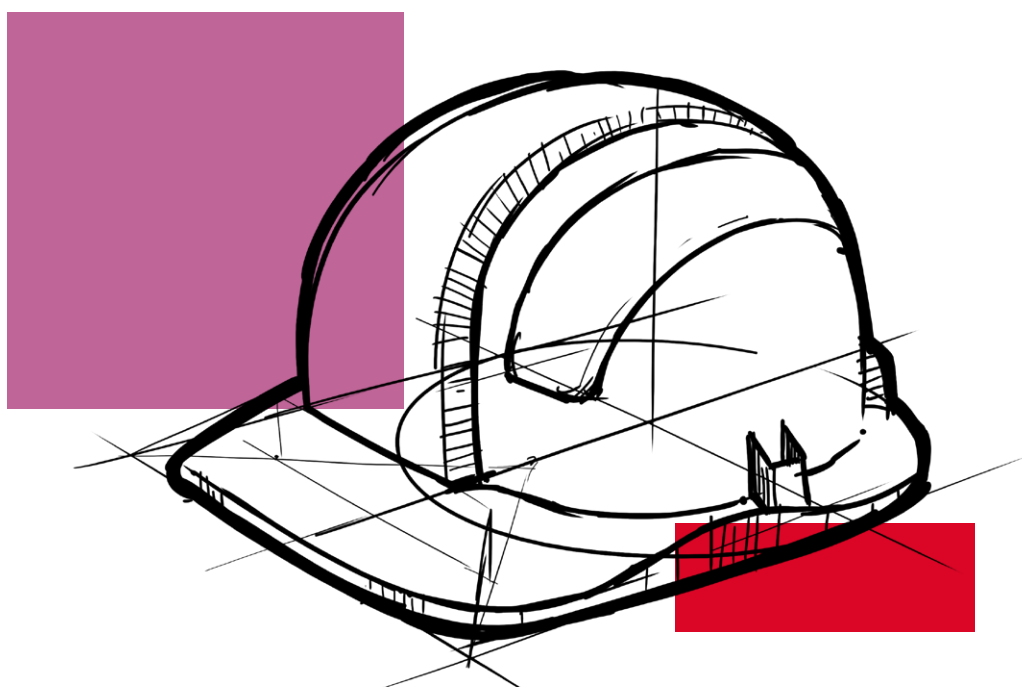
- E40: Designed joints in in-situ concrete – 530 Sealant
- F30: Accessories/sundry items for brick/block/stone walling - 610 Movement joints with sealants
- L10: Windows/rooflights/screens/louvres – 790 Fire resisting frames
- L20: Doors/shutters/hatches – 820 Sealant joints
- P12: Fire stopping systems – 395 Sealant-One part fire resistance acrylic

Disclaimers

This product should only be utilised for applications as outlined in the relevant ROCKWOOL product datasheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally, the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit www.rockwool.co.uk or contact our Technical Solutions Team on 01656 868490.

Supporting information

For further information relating to any aspect of the FirePro range, please refer to the applicable ROCKWOOL standard details at www.rockwool.co.uk or contact the ROCKWOOL technical solution team on 01656 868490 or technical.solutions@rockwool.co.uk.



Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:



Fire resistance



Acoustic comfort



Sustainable materials



Durability

Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC: ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.



Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email technical.solutions@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services.

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