

FIREPRO[®] **LUL INTUMESCENT** **SEALANT**

Low smoke, fire resistant linear joint sealant

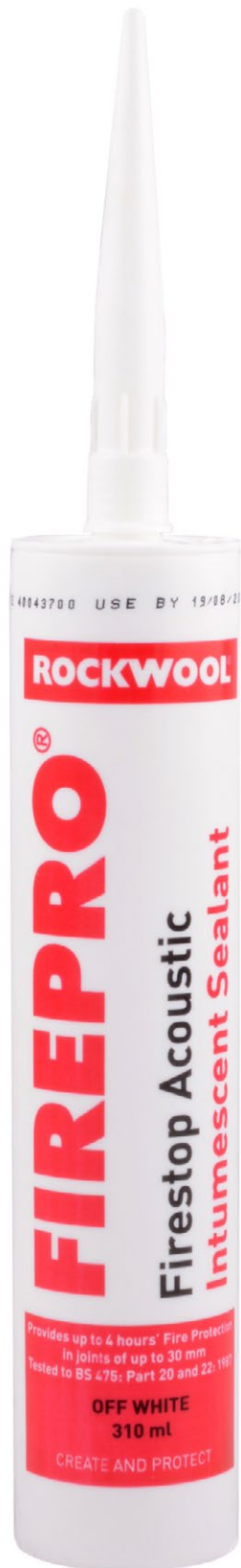


FIREPRO® LUL INTUMESCENT SEALANT

FIREPRO LUL Intumescent sealant has been specially developed to provide very low smoke emission making it suitable for a wide range of underground applications.

LUL Intumescent sealant can be used to seal linear joints and service penetrations providing up to 2 hours fire resistance.





Advantages

- Approved for LUL applications
- Low smoke emission
- Easy to apply cartridge application
- Up to 4 hours fire resistance

Description

ROCKWOOL FIREPRO® LUL Intumescent Sealant is a one-part water based acrylic sealant. This specially formulated sealant has an exceptionally low smoke emission characteristic which allows it to be used in fire resistant joints and around service penetrations in underground applications.

ROCKWOOL FIREPRO® LUL Intumescent Sealant is available in white and supplied in 310ml cartridges or 600ml foil packs.

Applications

ROCKWOOL FIREPRO® LUL Intumescent Sealant is suitable for sealing linear gaps of up to 40mm in vertical supporting constructions consisting of masonry, blockwork or concrete (sealed on both faces), additional LUL applications include:

- Steel pipes with an outside diameter of up to 60mm
- Multi-core cables with a diameter of up to 15mm
- Sealing joints in masonry walls, steel to masonry, timber to masonry
- Sealing fire rated door frames
- Other permanent services

Performance

Fire performance

Table 1
Single seals in wall applications

Substrates	Max. joint width (mm)	Sealant depth (mm)	Fire integrity (mins)	Fire insulation (mins)
Block to block	35	20	240	120
Block to steel	25	25	240	60
Timber (min density 450-649kg/m ³)	25	35	60	60

All samples were single seals installed on fire side with a ROCKWOOL FIREPRO® mineral wool backer material (30mm depth)

Table 2
Double seals in wall applications

Substrates	Max. joint width (mm)	Sealant depth (mm)	Fire integrity (mins)	Fire insulation (mins)
Block to block	40	25	240	240
Block to steel	25	25	240	240
Block to timber (min density 450kg/m ³)	25	30	90	90

All seals to be backed with ROCKWOOL FIREPRO® mineral wool backer material (30mm depth)



Figure 1
Double sealed joint with FIREPRO mineral wool backer

Sealing around pipes and cables

Up to 2 hours fire resistance with a single seal combined with a ROCKWOOL FIREPRO® mineral wool backer material (30mm depth) with annular gaps of up to 15mm wide on steel pipes and 10mm wide around single cables of up to 15mm diameter.

LUL smoke test

Test	Result
Smoke density	Ao (max) = 0.0170
Toxicity tests	CIT value = 2.05
Oxygen index value	OI = 31.8

Technical information

Standards and approvals

FIREPRO® LUL Intumescent Sealant has been tested in accordance with BS 476: Part 20:1987, providing up to 2 hours fire protection with a single seal using ROCKWOOL FIREPRO® mineral wool backer material.

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.

Product information

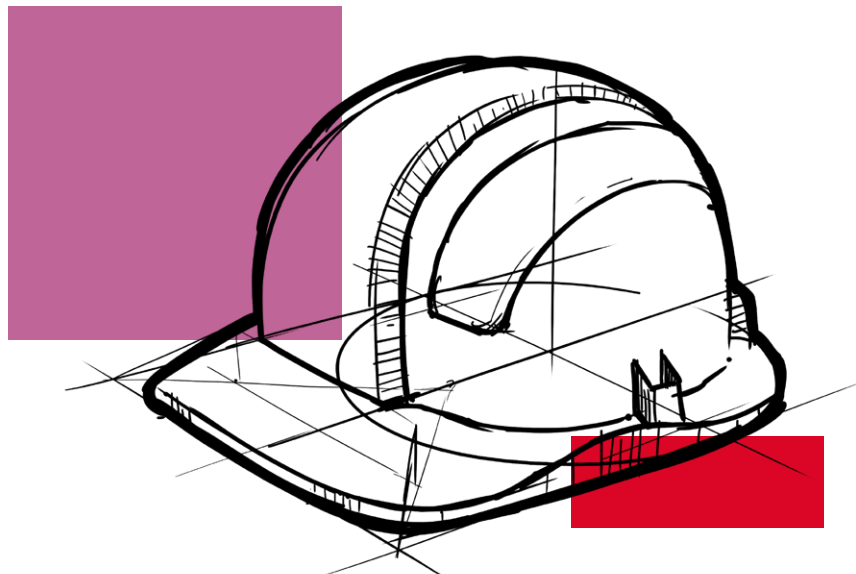
Property	Description
Pack Size	310ml cartridge/600ml foil pack
Application Temperature	>5°C
Yield	Up to 5.9lm (10mm x 10mm joint from 310ml)
Fire Resistance	Up to 2 hours

Installation

All surfaces must be clean and sound, free from dirt, grease and other contamination. No priming is required for most construction substrates; however, it is recommended that a small area be tested on substrates. The sealant should not be applied if the ambient temperature is below 5°C as adhesion will be impaired. The sealant is fast curing approximately 15 minute tack free time. When fully cured the sealant is over paintable.

Limitations

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



Specification clauses

FIREPRO® LUL Intumescent Sealant is associated with the following NBS clauses:

F30 Accessories/sundry items for brick/block/stone walling

- 610 Movement joints with sealant
- 670 tops of non-load bearing walls

K10 Gypsum board dry linings/partitions/ceilings

- 125 Metal stud partition systems
- 155 Wall lining systems (metal studs)
- 165 Wall lining systems (metal framing)
- 175 Wall lining systems (metal furrings)
- 185 Wall lining systems (adhesive)

• 205 Lining on timber

- 215 Suspended ceiling system
- 220 Proprietary suspended ceiling system
- 245 Ceiling lining on timber

M20 Plastered/Rendered/Roughcast coatings

- 653 Sealant movement joints with stop bead edgings

P12 Fire stopping systems

- 390 Sealant: Fire resistant silicone
- 395 Sealant: One-part fire resistant acrylic

P31 Holes, chases, covers and supports for services

- 710 Sealing

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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