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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-20/1130 of 2020/12/15

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	FIREPRO® Acoustic Intumescent Sealant
Product family to which the above construction product belongs:	Fire Stopping, Fire Sealing & Fire Protective Products. Fire Retardant Products
Manufacturer:	ROCKWOOL Ltd Pencoed Bridgend South Wales CF35 6NY
Manufacturing plant:	E/089
This European Technical Assessment contains:	14 pages including 3 annexes which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 350141-00-1106, Linear Joint and Gap Seals
This version replaces:	-

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

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1. Technical Description of the Product

1) FIREPRO® Acoustic Intumescent Sealant is an acrylic based sealant used to form linear gap seals where gaps are present in wall and floor constructions and linear joint seals where wall and floor constructions abut.

2) FIREPRO® Acoustic Intumescent Sealant has slight intumescent properties that cause it to swell on heating.

3) The FIREPRO® Acoustic Intumescent Sealant is supplied in liquid form contained within 310 ml & 380ml cartridges, 600ml foils or in 5, 10, 20 or 25 litre tubs. The sealant is gunned or trowelled into the aperture in or between the separating element/elements to a specified depth utilising various backing materials.

2. Specification Of The Intended Use In Accordance With The Relevant EAD

The intended use of FIREPRO® Acoustic Intumescent Sealant is to reinstate the fire resistance performance of gaps in and joints between rigid and flexible wall constructions, gaps in and joints between rigid floor constructions.

1) The specific elements of construction that the FIREPRO® Acoustic Intumescent Sealant may be used to provide a gap or joint seal in, are as follows:

Rigid Floors:	The floor must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m^3.
Rigid walls:	The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m^3.
Flexible walls	The wall must have a minimum thickness of 120 mm and comprise timber or steel studs lined on both faces with minimum 2 layers of 12.5 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration shall be closer than 100 mm to a stud, the cavity must be closed between the penetration seal and the stud and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

2) The FIREPRO® Acoustic Intumescent Sealant may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex C).

3) The maximum permitted joint/gap width for FIREPRO® Acoustic Intumescent Sealant is 60 mm.

4) The maximum movement capability of FIREPRO® Acoustic Intumescent Sealant is ≤ 25% depending on the application and installation. See Annex A for further details

5) The provisions made in this European Technical Assessment are based on an assumed working life of the FIREPRO® Acoustic Intumescent Sealant of 25 years, provided that the conditions laid down in sections 4.2/5.1/5.2 for the packaging/transport/storage/installation/ use/repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

2.1 Use Category

Type Z_1: Intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.

3 Performance Of The Product And References To The Methods Used For Its Assessment

	Characteristic	Assessment of characteristic
BWR 1 Mechanical resistance and stability		
BWR 2 Safety in case of fire		
	Reaction to fire	No performance assessed
	Resistance to fire	See clause 3.1.2
BWR 3 Hygiene, Health and the Environment		
	Air permeability	See clause 3.2.1
	Release of dangerous substances	See clause 3.2.2
BWR 4 Safety in use		
	Durability and serviceability	See clause 3.3.1
BWR 5 Protection against noise		
	Airborne sound insulation	See clause 3.4.1

3.1 Safety in case of fire

3.1.1 Reaction to fire

No performance assessed.

3.1.2 Resistance to fire

FIREPRO® Acoustic Intumescent Sealant has been tested in accordance with BS EN 1366-4: 2006 based upon the test results and the field of direct application specified within EN 1366-4: 2006, the system FIREPRO® Acoustic Intumescent Sealant has been classified in accordance with EN 13501-2, as given in Annex A:

The seals may only be used in the elements of construction described in Annex C and against the substrates described in Annex A.

Provisions shall be taken such that floor joint seals cannot be stepped on e.g. by covering with wire mesh or floor finishes.

3.2 Health, Hygiene and the environment

3.2.1 Air permeability

FIREPRO® Acoustic Intumescent Sealant has been tested in accordance with BS EN 1314-1 to provide the following results:

Product tested			Pyrocoustic intumescent sealant	
	Results under positive chamber pressure		Results under negative chamber pressure	
Pressure (Pa)	Leakage (m^3/h)	Leakage ($m^3/m^2/h$)	Leakage (m^3/h)	Leakage ($m^3/m^2/h$)
50	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0
150	0.0	0.0	0.1	2.8
200	0.0	0.0	0.1	2.8
250	0.0	0.0	0.1	2.8
300	0.0	0.0	0.0	0.0
450	0.1	2.8	0.1	2.8
600	0.1	2.8	0.1	2.8

3.2.2 Release of dangerous substances

Rockwool Ltd has presented a declaration that FIREPRO® Acoustic Intumescent Sealant does not contain any substance of high concern with regards to REACH Regulations and are compliant with the requirements reference to http://ec.europa.eu/enterprise/construction/cpd-ds/index.cfm

Confirmation has further been declared that all dangerous chemical substances ≥1.0 % w/w as well as all toxic, carcinogenic, toxic for reproduction and mutagenic chemical substances ≥ 0.1 % w/w (Status: 29. adaption – 2004/73/EG – of the EU directive 67/548/EEC - classification, packaging and labelling of dangerous substances) are stated in the FIREPRO® Acoustic Intumescent Sealant safety data sheets (according to91/155/EEC including amendments) and have been considered for the classification of the products according to the directive 1999/45/EG (classification of preparations, including amendments).

All dangerous chemical substances are below the classification limits of67/548/EEC.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

The use category of FIREPRO® Acoustic Intumescent Sealant in relation to BWR 3 (Hygiene, health and environment) is IA3, S/W3

3.3 Safety and accessibility in use.

3.3.1 Durability and serviceability

FIREPRO® Acoustic Intumescent Sealant has been tested in accordance with EOTA Technical Report - TR024 – Edition November 2006, for the type Z1 use category specified in EAD 350454-00-1106 Fire Stopping And Fire Sealing Products, and the results of the tests have demonstrated suitability for penetration seals intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0oC, without exposure to rain or UV.

3.4 Protection against noise.

3.4.1 Airborne sound insulation

The results of the test provided the following single number rating according to BS EN 10142-2:
Rw (C;Ctr)= 38(-2;-7)

4 Assessment and Verification of Constancy Of Performance (Hereinafter AVCP) System Applied, With References To Its Legal base

According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

Products	Intended use/s	AVCP System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	System 1

5. Technical Details Necessary For The Implementation Of The AVCP System, As Provided For In The Applicable EAD.

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark A/S prior to CE marking

Issued in Copenhagen on 2020-12-15 by

Thomas Bruun
Managing Director, ETA-Danmark

Annex A

Reference Documents

References to standards mentioned in the ETA:

EN 13501-1	Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
EN 13501-2	Fire classification of construction products and building elements – Part 2: Classification using test data from fire resistance tests
EOTA TR 024	Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products

Annex B

Description of Product and Product Literature

FIREPRO® Acoustic Intumescent Sealant

A detailed specification of the product is contained in document "Evaluation Report" relating to the European Technical Assessment of FIREPRO® Acoustic Intumescent Sealant which is a non-public part of this ETA.

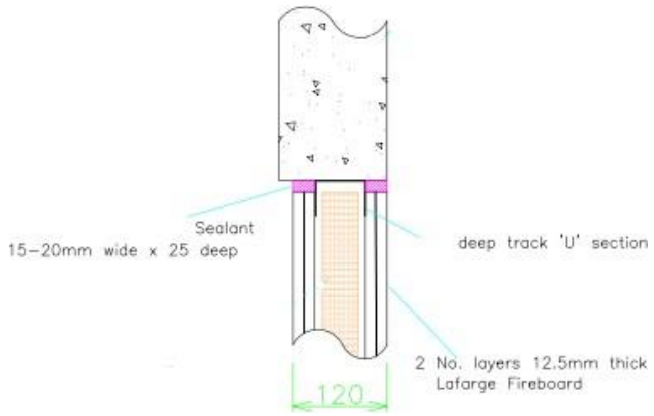
Annex C

Resistance to Fire Classification of FIREPRO® Acoustic Intumescent Sealant

C1 Flexible Wall constructions with wall thickness of minimum 120 mm

C.1.1 Linear joint or gap seal, horizontally orientated with sealant to the unexposed and exposed faces

Construction details: FIREPRO® Acoustic Intumescent Sealant installed both sides of the wall



C.1.1

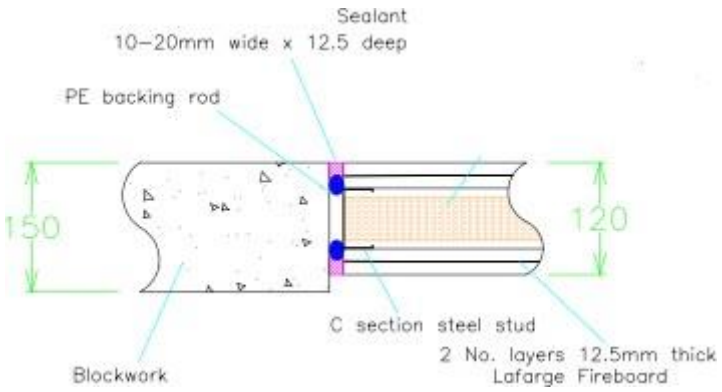
FIREPRO® Acoustic Intumescent Sealant. Min 120 mm Thick – Sealing of Drywall Head Track-Sealant Flush To Both Faces Of The Wall		
Substrate	**Depth (mm)**	**Classification**
Gypsum board/Steel head track	25mm. (Both Sides)	**EI120–T – X – F – W 00 to 20**
Gypsum board/Steel head track	25mm. (Both Sides)	**EI120–V – X – F – W 00 to 20**

C.2 Flexible Wall constructions with wall thickness of minimum 120 mm

C.2.1 Linear joint or gap seal, vertically orientated with sealant to the unexposed and exposed face

Construction details: FIREPRO® Acoustic Intumescent Sealant installed both sides of the wall

Maximum joint height 3m



C.2.2

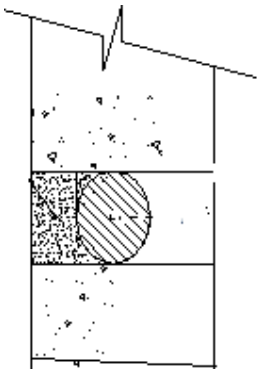
FIREPRO® Acoustic Intumescent Sealant Linear Joint Seals. Min 120 mm Thick Flexible or Rigid Wall. Sealant Flush To Both Faces Of The Wall		
Depth (mm)	**Backing Material**	**Classification**
12.5mm. (Both Sides)	PE backing Rod	**EI120–V – X – F – W 00 to 20**

C.3 Rigid Wall constructions with wall thickness of minimum 100 mm

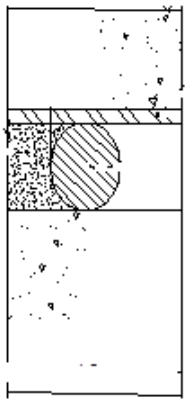
C.3.1 Linear joint or gap seal, vertically orientated with sealant to one side of the wall

Construction details: FIREPRO® Acoustic Intumescent Sealant installed either side of the wall

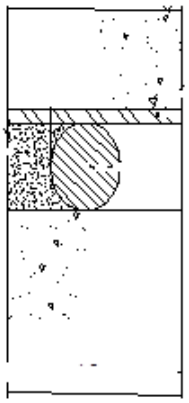
Softwood density:- minimum 410kg/m^3, fixing centres 300mm



Concrete-Concrete



Concrete to Softwood



Concrete to Steel

C.3.2

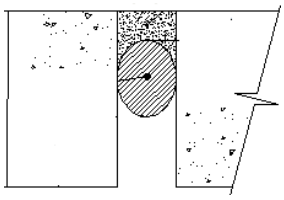
FIREPRO® Acoustic Intumescent Sealant Joint Seals. Min 100 mm Thick Rigid Wall.			
Substrate	**Depth (mm)**	**Backing Material**	**Classification**
Concrete-Concrete	10 (Single Side)	PE backing Rod	**E120 EI45–V – X – F – W 00 to 20**
Concrete-Concrete	25 (Single Side)	PE backing Rod	**E120 EI60–V – 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 EI30–V – X – F – W 00 to 50**
Concrete-Softwood	10 (Single Side)	PE backing Rod	**E30 EI20–V – X – F – W 00 to 20**
Concrete-Softwood	50 (Single Side)	PE backing Rod	**EI45–V – X – F – W 00 to 50**

C.4 Rigid Floor with floor thickness of minimum 150 mm

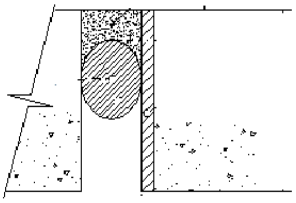
C.4.1 Linear joint or gap seal, horizontally orientated with sealant to one side of the floor

Construction details: FIREPRO® Acoustic Intumescent Sealant installed to the upper face of the floor

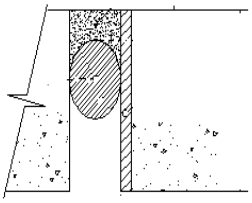
Softwood density:- minimum 410kg/m^3, fixing centres 300mm



Concrete-Concrete



Concrete to Steel



Concrete to Softwood

C.4.2

FIREPRO® Acoustic Intumescent Sealant Linear Joint Seals. Min 150 mm Thick Rigid 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 EI90–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**