





designated according to Article 29 of the Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment, www.eota.eu)

European Technical Assessment

ETA 18/0932 of 12/12/2018

Technical Assessment Body issuing the ETA and designated according to Article29 of the Regulation (EU) No 305/2011:UL International (UK) Ltd					
Trade name of the construction product	Knauf FPA Acrylic				
Product family to which the construction product belongs	Fire Stopping and Sealing Product:Penetration Seals				
Manufacturer	Knauf Sp. Z o.o. ul. Światowa 25 02-229 Warsaw Poland				
Manufacturing plant(s)	A/003				
This European Technical Assessment contains	63 pages including 1 Annex which forms an integral part of this assessment.				
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	EAD 350454-00-1104, September 2017.				

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 <u>Technical description of the product</u>

- 1) Knauf FPA Acrylic is a sealant used to form a penetration seal around metallic pipes, plastic pipes, composite pipes and electrical cables to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of services.
- 2) The Knauf FPA Acrylic is supplied in liquid form contained within 310 & 380 ml cartridges and 600 ml foil packs. The sealant is gunned into the aperture in the separating element/elements and around the service or services, to a specified depth utilising mineral fibre insulation backing material.
- 3) Knauf FPA Acrylic contains no carcinogenic substances or mutagenic substances, flame retardants or antimicrobiological agents.
- 4) The applicant has submitted a written declaration that Knauf FPA Acrylic does not contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the EGDS taking into account the installation conditions of the construction product and the release scenarios resulting from there. An emission report has also been provided.

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.

5) The use catagory of Knauf FPA Acrylic in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3

2 <u>Specification of the intended uses of the product in accordance with the applicable European Assessment</u> <u>Document (Hereinafter EAD): EAD 350454-00-1104</u>

Detailed information and data is given in Annex A.

- 1) The intended use of system Knauf FPA Acrylic is to reinstate the fire resistance performance of flexible wall constructions, rigid wall constructions and rigid floor constructions where they are penetrated by various metal pipe services with and without combustible insulation, plastic pipes, composite pipes and electrical cables.
- 2) The specific elements of construction that the system Knauf FPA Acrylic may be used to provide a penetration seal in, are as follows:
 - a. Flexible walls: The wall must have a minimum thickness of 75 mm and comprise steel studs or timber studs* lined on both faces with minimum 1 layers of 12.5 mm thick boards.
 - Bu Rigid walls: The wall must have a minimum thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³.
 - c. Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m³.

* no part of the penetration seal may 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 must be 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.

- 3) The system Knauf FPA Acrylic may be used to provide a penetration seal with specific single insulated metal pipes, uninsulated metal pipes, plastic pipes, composite pipes and with specific electrical cables, single or in a bundle (for details see Annex A).
- 4) Apertures in the separating element shall be maximum 300 x 300 mm or 100 x 1000 mm. The annular space/gap around the services shall be infilled with mineral fibre insulation backing material and Knauf FPA Acrylic sealant. Blank seals up to 300 x 300 mm are permitted. For full details, see Annex A.
- 5) Pipes shall be supported at maximum 350 mm away from both faces of the wall constructions and from the upper face of floor constructions.
- 6) The provisions made in this European Technical Approval are based on an assumed working life of the Knauf FPA Acrylic of 30 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, 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.
- 7) Type Z₂: Intended for uses in internal conditions with humidity lower 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

Product-type: Sealant	Intended use: Per	Intended use: Penetration Seal					
Assessment method	Essential characteristic	Product performance					
BWR 2 Safety in case of fire							
EN 13501-1	Reaction to fire	Class D-s1, d1					
EN 13501-2	Resistance to fire	Annex A					
BWR 3 Hygiene, health and environment							
EN 1026	Air permeability	No performance determined					
EAD 350454-00-1104, Annex C	Water permeability	No performance determined					
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA1, S/W3 Declaration of manufacturer					
BWR 4 Safety in use							
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined					
EOTA TR 001:2003	Resistance to impact/movement	No performance determined					
EOTA TR 001:2003	Adhesion	No performance determined					
EAD 350454-00-1104, Clause 2.2.9	Durability	Z2					
	BWR 5 Protection against noise						
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	No performance determined					
BWR 6 Energy economy and heat retention							
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 14683, EN ISO 10211, EN ISO 10456	Thermal properties	No performance determined					
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined					

4 ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE

According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see http://eur-lex.europa.eu/JOIndex.do) of the European Commission¹, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1

5 <u>Technical details necessary for the implementation of the AVCP system, as provided for in the applicable</u> <u>EAD</u>

Tasks of the manufacturer:

Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this European technical Assessment.

The manufacturer may only use initial / raw / constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control Plan of 8th April 2013 relating to the European technical assessment ETA 18/0932 issued on 12/12/2018 which is part of the technical documentation of this European technical approval. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at UL International (UK) Ltd.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

¹ Official Journal of the European Communities L178/52 of 14/7/1999

Other tasks of the manufacturer

Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

- (a) Technical data sheet:
 - Field of application:
 - Building elements for which the linear joint seal or penetration seal is suitable, type and properties of the building elements like minimum thickness, density, and in case of lightweight constructions the construction requirements.
 - Limits in size, minimum thickness etc. of the joint or penetration seal
 - Construction of the linear joint seal or penetration seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific.
 - Services which the penetration seal is suitable, type and properties of the services like material, diameter, thickness etc. in case of pipes including insulation materials; necessary/allowed supports/fixings (e.g. cable trays)
- (b) Installation instruction:
 - Steps to be followed
 - Procedure in case of retrofitting
 - Stipulations on maintenance, repair and replacement
- 6 Issued on:

12th December 2017

Report by:

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