



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

## European Technical Assessment

**ETA 23/0966  
of 29/02/2024**

**Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011:** UL International (Netherlands) B.V.

**Trade name of the construction product** Knauf FP Putty

**Product family to which the construction product belongs** Fire Stopping and Sealing Product:  
• Penetration Seals

**Manufacturer** Knauf Sia  
Daugavas iela 4,  
Saurieši, Stopiņu pagasts,  
Ropažu novads, LV-2118,  
Latvija

**Manufacturing plant(s)** A/003

**This European Technical Assessment contains** 42 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.

**Corrigendum No. 1**

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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## I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

### 1 Technical description of the product

- 1) Knauf FP Putty is a flexible pad or cord used to reinstate the fire resistance performance of wall and floor constructions where they have been provided with apertures for the penetration of insulated or uninsulated metallic pipes, cables, and pipes or cables into socket boxes.
- 2) The Knauf FP Putty is supplied precut to size with a peel off strip to both faces to prevent it from bonding materials other than for the desired application. The Knauf FP Putty is installed by removing the peelable strips and wrapping the pad around the socket box where it penetrates the face of the wall and covering the back face of the box. When installing around service penetrations, the Knauf FP Putty is installed by removing the peelable strips and wrapping the cord around the service where it penetrates the face of the wall or floor.
- 3) The applicant has submitted a written declaration that Knauf FP Putty 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.

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.

- 4) The use category of Knauf FP Putty in relation to BWR 3 (Hygiene, health and environment) is IA1.

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

Detailed information and data is given in Annex A.

- 1) The intended use of Knauf FP Putty is to reinstate the fire resistance performance of flexible, masonry or concrete walls and rigid floor constructions where they are penetrated by insulated or uninsulated metallic pipes, cables and the pipe or cable protrusion of socket boxes.
- 2) The specific elements of construction that the system Knauf FP Putty may be used to provide a penetration seal in, are as follows:
  - a. Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel studs or timber studs\* lined on both faces with minimum 2 layers of 12.5 mm thick boards.
  - b. 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<sup>3</sup>.
  - 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/m<sup>3</sup>.

\* 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.

Knauf Sia Fire Protection Systems which involve seals on both sides of a flexible wall may also be used in the situation where the linear seal is on one side of the wall only and the remaining side of the wall is not punctured at the same point. All fire integrity and thermal insulation ratings for such single-sided seals remain the same as for the equivalent double-sided seal.

- 3) The System Knauf FP Putty may be used to provide a penetration seal for insulated or uninsulated metallic pipes, cables and the pipe or cable protrusion of socket boxes (for details see Annex A).
- 4) The system Knauf FP Putty may be used to seal gaps between 0 mm and 10 mm surrounding cables, cable bundles, non-insulated and insulated pipes, and 137 mm wide by 77 mm high (aperture containing socket box) and be installed in accordance with the manufacturer's instructions. When used with socket boxes, the aperture in the wall shall be as tight as possible to the penetration pipe or cable and any gaps filled with plaster filler or Knauf FPA Acrylic.
- 5) Where single sided top face seals are described in Annex A, these can also be used in composite floors (e.g., Concrete filled, steel trapezoidal decking).
- 6) Services shall be supported at maximum 300 mm away from both faces of the wall constructions, and 500 mm from the upper face of floor constructions.
- 7) The designation U/U, C/U, U/C or C/C indicates whether or not the product under test is sealed during the fire test.

The first letter refers to the situation in the oven and the second to the situation outside the oven (see table).

Test Condition	Configuration	
	Exposed to heat from oven (inside the oven)	Unexposed to heat from oven (outside the oven)
<b>U/U</b>	Unsealed	Unsealed
<b>C/U</b>	Sealed	Unsealed
<b>U/C</b>	Unsealed	Sealed
<b>C/C</b>	Sealed	Sealed

- a. The tests carried out with unsealed ends (U/U) correspond to the most unfavorable situation, since the fire can spread more easily because the two ends are unsealed. The results of these tests may therefore be applied in all situations (U/U, C/U, U/C and C/C).
  - b. The C/U tests may be used in the following situations: C/U, U/C and C/C.
  - c. The U/C tests may in turn be used for situations U/C and C/C, while the C/C tests may only be used in the C/C situation.
- 8) The provisions made in this European Technical Assessment are based on an assumed working life of the Knauf FP Putty of 25 years, provided that the conditions laid down in the product datasheet 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.
  - 9) Type Z<sub>2</sub>: 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: Intumescent sheet		Intended use: Penetration Seal
Assessment method	Essential characteristic	Product performance
<b>BWR 2 Safety in case of fire</b>		
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	Annex A
<b>BWR 3 Hygiene, health and environment</b>		
EN 1026	Air permeability	Annex B
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 Declaration of manufacturer
<b>BWR 4 Safety in use</b>		
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	Z <sub>2</sub>
<b>BWR 5 Protection against noise</b>		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	R <sub>w</sub> (C;C <sub>tr</sub> )= 67 (-2;-7) dB*
<b>BWR 6 Energy economy and heat retention</b>		
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

\*Applicable only for Knauf FP Putty Pads in socket boxes

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 <https://eur-lex.europa.eu/oj/direct-access.html>) of the European Commission<sup>1</sup>, 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

**4 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

**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 7<sup>th</sup> February 2023 relating to the European technical assessment ETA 23/0966 issued on 29/02/2024 which is part of the technical documentation of this European technical Assessment. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at UL International (Netherlands) B.V.

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

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<sup>1</sup> 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 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 penetration seal
  - Construction of the 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. pipe trays)
- (b) Installation instruction:
- Steps to be followed
  - Procedure in case of retrofitting
  - Stipulations on maintenance, repair and replacement

**5 Issued on:**

**29<sup>th</sup> February 2024**

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