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Designated according to Article 29 of Regulation (EU) No 305/2011

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European Technical Assessment ETA 21/0661 of 27/07/2021

General Part

Technical Assessment Body issuing the European Technical Assessment: Full name or acronym (if full name included in the header)	
Trade name of the construction product	**Fire Mortar**
Product family to which the construction product belongs	Sealing mortar for fire safe wall and floor pipe and cable penetrations
Manufacturer	FireSeal AB Box 7091 164 07 Kista Sweden
Manufacturing plant(s)	Manufacturing plant I Tallbacksgatan 11 Hus J SE-195 72 Rosersberg Sweden
This European Technical Assessment contains	23 pages including 1 Annex which form 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 Fire stopping and fire sealing products – Penetration seals

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

Fire Mortar is a non-combustible gypsum-based mortar. The mortar is a mixture of calcium sulphate, expanded perlite, calcium hydroxide and fiberglass.

Fire Mortar is supplied as a dry material, and is mixed with water to the required ratio prior to installation.

Fire Mortar when mixed is self-supporting in a wall and floor orientation, and is used with a permanent mineral wool backing, depending upon the required application (see Annex A).

2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD): EAD 35454-00-1104

The intended use of Fire Mortar is to reinstate the fire resistance performance of flexible wall, rigid wall and floor constructions where they are penetrated by various steel, stainless steel, cast iron and copper pipes and cables.

Flexible walls (gypsum plasterboard): minimum one board layer of minimum 12,5 mm thickness on each side, Minimum overall plasterboard thickness 25 mm.
Rigid walls: The wall must have a minimum thickness of 70 mm and comprise concrete, aerated concrete or masonry, with a minimum dry density of 550 kg/m^3.
Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum dry density of 550 kg/m^3.
The walls, floors and supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

Detailed information and data are given in Annex A.

The provisions made in this European Technical Assessment are based on an assumed working life of the hardened product of 25 years. 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.
The real working life might be, in normal use conditions, considerable longer without major degradation affecting the Basic Requirements for construction works.

The use category of the Fire Mortar is:
Category 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.

The product shall be installed and used as described in the ETA-holder's installation instructions.

The indications of the manufacturer regarding transport and storage (minimum and maximum storage temperature, maximum duration of storage) have to be followed.

3. Performance of the product and references to the methods used for its assessment

Table 1. Essential characteristics of the product and methods and criteria for assessing the performance of the product in relation to those essential characteristics.

Product type: Mortar		Intended use: Penetration Seal
Essential characteristic	Assessment method	Performance
BWR 2 Safety in case of fire		
Reaction to fire	EN 13501-1:2019	Class 'A1'
Resistance to fire	EN 13501-2:2019	Annex A
BWR 3 Hygiene, health and environment		
Air permeability	EN 1026	No performance assessed
Water permeability	EAD 350454-00-1104, Annex C	No performance assessed
Content, emission and/or release of dangerous substances	EN 16516	Release scenarios IA1 - Product with direct contact to indoor air VOC and SVOC emission: < 0,005 mg/m^3 after 28 days S/W3 - Product with no contact to soil, ground- and surface water
BWR 4 Safety in use		
Mechanical resistance and stability	EOTA TR 001:2003	No performance assessed
Resistance to impact/movement	EOTA TR 001:2003	No performance assessed
Adhesion	EOTA TR 001:2003	No performance assessed
Durability	EAD 350454-00-1104, clauses 2.2.9.3.1 and 2.2.9.3.11 EOTA TR 024	Use category Z2 – intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0 °C, without exposure to rain or UV
BWR 5 Protection against noise		
Airborne sound insulation	EN ISO 717-1:	No performance assessed
BWR 6 Energy economy and heat retention		
Thermal resistance	EN ISO 6946	No performance assessed
Water vapour permeability	EN ISO 12572 EN 12086	No performance assessed

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

According to EAD 350005-00-1104, the applicable legal act for determining the AVCP system is: Commission Decision No 1999/454/EC of 22 June 1999 (OJ L 178 of 14 July 1999, p. 42), as amended by Commission Decision No 2001/596/EC of 8 January 2001 (OJ L 209 of 2 August 2001, p. 33).
The applicable system of assessment and verification of constancy of performance (see Annex V in connection with Article 65 Paragraph 2 of Regulation (EU) No 305/2011) is system 1 as given in the following table.

Product(s)	**Intended use(s)**	**Level(s) or class(es)** (resistance to fire)	**System(s)** of assessment and verification of constancy of performance
Fire stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* of the manufacturer deposited with Kiwa and agreed in accordance with EAD 350454-00-1104, section 3. Changes to the product/production process, which could result in this deposited data / information being incorrect, should be notified to Kiwa for approval whether these changes do not affect the content of the ETA before the changes are introduced.
The *Control Plan* is a confidential part of the ETA and only handed over to the notified product certification body involved in the assessment and verification of constancy of performance.
The factory production control operated by the manufacturer shall be in accordance with the above mentioned *Control Plan*.

Issued in Rijswijk on 27-07-2021 by

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