ASTROFLAME
PASSIVE FIRE STOP SYSTEMS

Product Data Sheet

Astro PFP FR EX Mortar

Revision 7 - 2nd February 2024



0843-UKTA-23/0024
0843-CPR-1316

CE-ETA - 21/0028
CE-2531-CPR-CXO10145

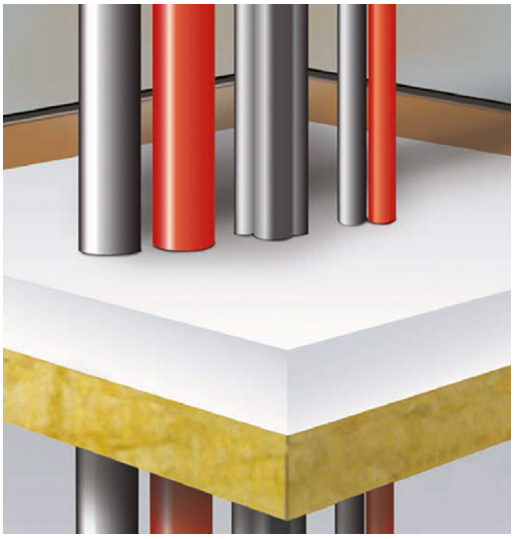
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Astro PFP FR EX Mortar

Fire Resistant Mortar



- Classified in walls and floors of concrete, brick, gypsum etc.
- Suitable for cables, bundled cables, cable racks, cable trays, steel, copper, alupex and plastic pipes.
- Simple to apply leaving a very smooth finish.
- **Please Note: NOT Suitable for Pizza Ovens, BBQ Bases, any types of ovens, fire places etc.**
- High degree of mechanical resistance; the seal is load bearing without reinforcement.
- No priming necessary prior to application in most building material substrates however metal services in contact with the seal must be corrosion protected.
- Suitable for most surfaces, included concrete, bricks, Leca, steel, plastic etc, but not suitable to fitting of doors or in service openings that involve movement.
- The product is certified for use in walls but it is recommended to use PFP FR Boards for these applications.
- Fully set within 1 hour.
- The fire performance specification of the compound has been derived when the seal has been left to cure for 1 month.
- **Extended shelf life** to 18 months stored in unopened bags or pails.



Product Description

Astro PFP FR EX Mortar is a dry white powder consisting of inorganic compounds and perlite.

When mixed with water, the compounds form a highly thermally insulating fire sealing compound to prevent the spread of fire and smoke through openings in fire rated walls and floors, including openings formed around building service penetrations.

Astro PFP FR EX Mortar will also maintain the acoustic design performance in walls and floors. Astro PFP FR EX Mortar expands approx. 1% by hydraulic action during curing ensuring a very tight seal around the service penetrations and the surrounding opening apertures.

Astro PFP FR EX Mortar is easy to sand or drill. The compound dries to an off-white colour which may be painted.

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CE

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ASTRO PFP
FR EX MORTAR
"See ETA - 21/0028
for relevant characteristics"

UK CA

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0843-UKTA-23/0024
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Sound Insulation

Description	Sound Reduction
Single sided cast ≥ 50 mm thick as linear seal	Rw 64 dB
Double sided cast ≥ 25 mm thick as linear seal	Rw 64 dB
Single sided cast ≥ 50 mm thick as large seal	Rw 48 dB
Double sided cast ≥ 25 mm thick as large seal	Rw 48 dB

Astro PFP EX Mortar has been tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010.

Resistance to Fire

Construction	Description	Classification
Flexible walls comprise gypsum, masonry, aerated concrete or concrete	Up to 2400 mm wide by 1200 mm high blank seal with double sided 25mm Astro PFP FR EX Mortar on 25mm cast board	EI 120 (E 120)
Rigid walls comprise masonry, aerated concrete or concrete, within walls or between the head of walls and the soffit of floor slabs	Up to 2400 mm wide by 1200 mm high blank seal with single sided 50mm Astro PFP FR EX Mortar on 50mm cast board	EI 120 (E 180)
	Up to 2400 mm wide by 1200 mm high blank seal with single sided 100mm Astro PFP FR EX Mortar	EI 240 (E 240)
Rigid floors comprise aerated concrete or concrete within floors or between floors and walls	Up to 2400 mm by 1200 mm blank seal with 50mm Astro PFP FR EX Mortar on top of 50mm cast board	EI 180 (E 180)
	Up to 2400 mm by 1200 mm blank seal casted with 100mm Astro PFP FR EX Mortar	EI 240 (E 240)

The cast board comprise stone wool with density ≥ 150kg/m³.
Please read the Installation Instructions before usage.

Technical Data

Condition	Powder ready for mixing with water
Product consumption at 2:1 mix	Approx. 3.42 bags per m^2 @ 50mm depth Approx. 6.83 bags per m^2 @ 100mm depth
Dry density	About 900 kg/m^3 after full cure
Flash point	None
Reaction to fire	Class A1
Hardened	Less than 1 hour depending on the local climate
Totally hardened	Up to 30 days depending on thickness and temp.
Flexibility	None
Durability/service	Class Z_2
Thermal conduct.	0.051 W/mK
Storage	18 months stored in unopened bags or pails. Should be stored between 5 °C and 30 °C and in dry conditions. Damp and humid conditions will affect the shelf life.
Compatibility	Suitable for use with most materials, but should not be used in direct contact with metals that may corrode
Limitations	Should not be used in permanently damp areas or in moving joints
Classification	CE-marked – Fire seal for fire rated openings and penetrations class EI 240
Colour	Off white

Availability

Product Code	Product Description	Colour	Sizes
AFPFPEXMB	Astro PFP FR EX Mortar- Bags	Off-White	20 L

10 L pail also available P.O.A

To Order & Specify

Please contact us and quote the following information - Quantity / Product Code / Product Description / Size
Typical example:- 25 / AFPFPEXMB / Astro PFP FR EX Mortar- Bags / 20 L

>> Tel: 01329 844 500 or >> Email: sales@astroflame.com

Installation

We have technical representatives who provide assistance in the selection and specification of the products on this site and should be consulted for exact installation and product suitability. Ensure an early engagement with ourselves, designers, main contractor and specialist installers before any installation. Other trades and/or manufacturers may need to be consulted. For in-depth information, specification and technical advice please call our Head Office on tel 01329 844 500 or email sales@astroflame.com

Maintenance

All interested parties, designer, specifier, main contractor and specialist installers should provide access to allow the fire stopping seals to be regularly inspected and maintained, as well as records kept of such maintenance at minimum periods of 12 months, as required by the Regulatory Reform Order, and repaired if necessary. Reference should be made to ASFP TGD 17 – Code of Practice for the Installation and Inspection of Fire Stopping.

Competency

It is vital that those entrusted to design or install a fire stopping product have the necessary levels of competence to undertake the task professionally and thoroughly. The level of competency required will be commensurate with the expected complexity of the building. All designers must eliminate, reduce or control foreseeable risks that may arise during installation, construction or maintenance when preparing or modifying designs. Clients should ensure that the principal designer and principal contractor carry out their duties under CDM regulations. The ASFP foundation course in passive fire protection provides essential knowledge as part of demonstrating competency and understanding in this key fire protection specialism.

Additional Notes

Please refer to the ETA/UKCA sheet for fields of application for this product. For further information on installation requirements please refer to the manufacturer of the services and the wall/floor specification to ensure the compatibility of this product, if in doubt please contact the technical team with services and wall/floor specification on: T: 01329 844 500 or E: sales@astroflame.com

Health and Safety

Please see (SDS) Safety Data sheet - This can be requested from our sales team T: 01329 844 500 or E: sales@astroflame.com

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