



# FP 370 Fireseal Mortar

## GYPNUM BASED FIRE RETARDANT MORTAR

### ADVANTAGES

- CE-marked
- Easy to apply
- Up to 4-hour fire resistance
- High sound insulation

### PRODUCT

Bostik FP 370 Fireseal 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. Bostik FP 370 Fireseal Mortar expands approx. 1% by hydraulic action during curing ensuring a very tight seal around the service penetrations and the surrounding opening apertures. Bostik FP 370 Fireseal Mortar is easy to sand or drill. The compound dries to an off-white colour which may be painted if required. Bostik FP 370 Fireseal Mortar will also maintain the acoustic design performance in walls and floors.

### APPLICATIONS

The intended use of Bostik FP 370 Fireseal Mortar is to reinstate the fire resistance performance of flexible wall, rigid wall and floor constructions where they are penetrated by various cables and metallic pipes.

### FEATURES

- Certified to the latest European standard EN 1366-3
- CE Marked to ETAG 026-2
- Fire resistance up to 4 hour
- The fire performance specification of the compound has been derived when the seal has been left to cure for 1 month
- Classified in walls and floors of concrete, brick, gypsum etc.
- Suitable for cables, bundled cables, cable racks, cable trays, steel, copper, alupex, plastic pipes and air ventilation ducts
- 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 Bostik FP 320 Fire Batts for these applications
- Easy to apply leaving a very smooth finish
- Fully set within 1 hour
- A+ French VOC Regulation
- Emission EC1Plus

### METHOD OF USE

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. If the mortar seal is required to be load bearing, please see page 2 on this Technical Data Sheet.
3. Bare metal pipes passing through the seal must be protected against corrosion using a suitable primer/ protection system.
4. When sealing drywalls the mortar should be flush with the surface of the wall on both sides.
5. When sealing masonry or concrete constructions, the seal can be positioned to either side of the construction or anywhere in between.
6. When installing Bostik FP 370 Fireseal Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
7. Install a stone wool shutter board where is necessary to achieve the required thickness of mortar. Make sure that this achieves a very tight seal – any small openings should

be sealed with Bostik FP 310 Intumescent Acoustic Acrylic.  
8. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process.

9. Once the desired consistency is achieved pour or trowel the mortar onto the shutter board making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.

#### - Mixing instructions

The following mixing ratios (by volume) of dry powder to clean water are recommended:

#### Mix type Volumes of dry powder to water

Pouring/casting	2:1
Trowel grade	3 to 4:1

Before application consult the installation instructions and ETA to ensure to achieve the intended fire resistance.

#### LOADBEARING PROPERTIES (FLOORS)

Bostik FP 370 Fireseal Mortar has been subject to concentrated load and impact tests in floors according to ETAG 026-2 and EOTA TR001 Clause 2. The tests were conducted on the minimum allowed cast depth of 100mm. According to the loading limits in the table below, reinforcement is not necessary, however it is highly recommended that the edges of the aperture are brushed free of any dust or loose particles and that any contamination is washed away using clean water. Moistening the edges well before casting will improve adhesion. Bostik FP 370 Fireseal Mortar should not be cast in surface treated concrete. The mortar must be mixed to a thick but fluid mass at a rate of approx. 2 parts of powder to 1 part water. Maximum loadbearing performance will be achieved 28 days after casting.

#### Test results:

(Test in 1500x1000mm frame)

- Soft body impact, serviceability: 500Nm
- Soft body impact, safety in use: 700Nm
- Hard body impact, serviceability: 6 Nm
- Hard body impact, safety in use: 10 Nm
- Concentrated load to ETAG 26-2: 15 kN

#### SOUND INSULATION

- Single sided cast  $\geq 50$  mm thick as linear seal: Rw 64 dB
- Double sided cast  $\geq 25$  mm thick as linear seal: Rw 64 dB
- Single sided cast  $\geq 50$  mm thick as large seal: Rw 48 dB
- Double sided cast  $\geq 25$  mm thick as large seal: Rw 48 dB

Bostik FP 370 Fireseal Mortar has been tested according to EN ISO 10140-2:2010.

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Technical data	
Base	Gypsum based mortar
Form	Powder ready for mixing with water
Reaction to fire	Class A1 (EN 13501-1)
Flash point	None
Dry density	About 900 kg/m <sup>3</sup> after full cure
Product consumption at 2:1 mix	Approx. 3.42 bags per m <sup>2</sup> @ 50mm depth Approx. 6.83 bags per m <sup>2</sup> @ 100mm depth
Curing time	Less than 1 hour depending on the local climate
Fully cured	Up to 30 days depending on thickness and temperature
Movement capability	None
Durability/service	Class Z2
Packaging	Bag 15 kg
Article number	30615213
Colour	Off white
Pallet quantity	63 bags

#### LIMITATIONS

- Suitable for use with most materials, but should not be used in direct contact with metals that may corrode.
- Should not be used in permanently damp areas or in moving joints.

#### STORAGE STABILITY

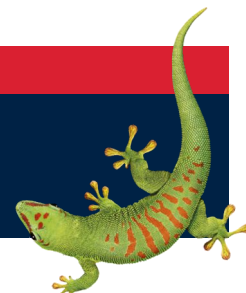
Shelf life of 12 months for bags stored in unopened packaging in dry conditions between +5 and +30°C.

#### FURTHER INFORMATION

Available on request:

- Material safety data sheet
- Installation instructions FP 370 Fireseal Mortar
- ETA 19/0387

## Smart help



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