

BOSS

Accumetric, LLC



Product Data Sheet

Boss Firestop Mortar

Application

Used to provide a physically strong fire seal in floors where personnel are likely to walk onto the seal face, or in wall situations where services such as air handling ducts require support.

Description

Boss Firestop Mortar is a mixture of inorganic binders, lightweight aggregates and additives. It contains no fibers or asbestos and is halogen free. It is supplied as a dry powder packed in 20kg bags, which is mixed with water to produce a pourable or trowellable consistency. After mixing, the product expands creating an excellent seal around pipes and cables, and ensures the whole seal bonds securely against surrounding masonry.

Fire Resistance

1hr	50mm thickness (for non load bearing situations)
2hrs	75mm thickness (non load bearing)
4hrs	100mm thickness (load bearing - contact Technical Department for)

Color:

Off white - other colors available at extra cost.

Size of opening:

Maximum size of floor opening without reinforcement: 900x600mm at 100mm depth.
Loadings up to 1.5kN / m².
600x600 at 100mm depth 4.5kN / m² tested at Warrington after a four hour fire exposure.
For larger openings and loadings over 1.5kN: Contact Boss Technical

Fire Ratings

Tested at Warrington Fire Research to BS 476 Part 20. Full 4 hours integrity.

1hr at 50mm thickness.
2hrs at 75mm thickness.
4hrs at 100mm thickness.

Benefits

- * High yield rate means that more square meters can be covered with less material than that of some competitors (see chart)
- * 50mm depth for 1hr for smaller non load bearing openings further improves cost-effectiveness.
- * Product remains workable for up to 60 minutes depending on temperature and humidity, then cures quickly to speed up work.
- * Mixes easily with water, no special skills required.
- * Free of halogen, silicon and asbestos fibers
- * Excellent acoustic performance up to 55dBA according to specification.

Legislation

Compartment walls and floors must maintain the appropriate level of fire resistance as set out in Building Regulations 1991 Approved Document 'B'.

Boss Firestop Mortar can be poured into floor openings, providing an excellent smoke & fire resistant seal around complicated services while (using the correct specification) allowing structural support for foot traffic.

In wall openings Boss Firestop Mortar can provide support to services such as air ducts, and can be pumped into difficult areas if required (Contact Technical Department for pumped applications).

1) Locate and review **Boss firestop Mortar** Health and Safety Notes before commencing work.

2) Protect area around work with sheeting.

3) Clear any debris or contaminants from opening and from services to be sealed.

4) For bare metal surfaces (such as copper or aluminum), we recommend a barrier tape (masking tape or the like) is applied before filling the hole with Boss Firestop Mortar.

5a) **Wall Openings** Fix suitable shuttering onto one face of the opening, ensuring a tight fit.

Mix up **Boss Firestop Mortar** (3parts powder to 1 part water) and trowel up against the shutter building up from the bottom in "lifts" of 150mm.

Proceed in a number of layers allowing lower layers to semi cure for an hour before adding more. Check specification for the correct depth required.

5b) **Floor Openings - Openings Less Than 900x600mm**

Fix suitable shuttering to the underside of the opening. If flammable materials are used, such as timber or polystyrene, they must be removed after Boss Firestop Mortar has cured.

Non flammable materials such as man made mineral fiber, steel or fire rated board may be left in position.

Fix shuttering to allow seal to finish flush with the floor level when poured to the specified depth, usually 50, 75, 100mm. Check specification.

For larger openings or those needing a specific load bearing capacity contact **Boss Technical Department**.

6) Before pouring the mortar into a floor opening, fill any small gaps around services with mineral fiber or ceramic wool and mix a batch of **Boss Firestop Mortar** to a trowellable consistency (3parts powder to 1 part water) and place around these areas to ensure a good seal. Allow 30-60mins to semi cure before the next stage.

7) Mix further **Boss Firestop Mortar** to a pourable consistency (2 parts powder to 1 part water and fill the opening to the required depth in **TWO** application to prevent over-loading the shutter.

8) Remove flammable shuttering after curing (overnight).

9) Fix identification labels or warning notices if the seal is not to be load bearing.

Boss Firestop Mortar - Fire seals Precautions

1) Maximum permitted loading on this fire seal is 1.5kN/m^2 (150kg m^2)

2) Do not place heavy toolboxes or equipment on this seal as the combined weight may exceed the maximum permitted load.

3) Place a spreader board such as 18mm thick ply or similar under ladders or access equipment to prevent excess point loads.

4) The seal surface is not as hard as concrete so do not drag heavy sharp objects across it.

5) Do not allow water or any liquid to stay on the surface of the seal.

6) Avoid dropping heavy tools such as power drills onto the surface.

7) Do not jump onto the seal face from a ladder or off the top of a duct.

Do:

1) Establish where the seal starts and finishes – mark outline with line paint or colored chalk.

2) Allow only one person at a time onto the seal.

3) Leave tool boxes and heavy equipment on the concrete floor.

4) Notify anyone working below.

5) Do not work alone.