



Fire Mortar-360™

6 Hours Fire-Rated Mortar

Load bearing fire-rated mortar for floor & walls. Provides up to 6 hours protection from fire and smoke around pipes, cables, ducting and dampers

Approved to AS1530.4(2005) up to -/360/360



Technical Data Sheet

KEY BENEFITS

- Offers up to -/360/360 FRL
- Can be reactivated to extend working time
- Suitable for indoor and outdoor use
- Acoustic insulation
- Free of halogens, asbestos, fibres and silica
- Non-toxic
- Load bearing
- Large opening sizes

INTRODUCTION



FireMortar-360 is a unique one-part synthetic mortar which can be trowelable or pourable, suitable for sealing opening in walls and floors to prevent the passage of fire and smoke.

FireMortar-360 is strong and non-combustible. It offers load bearing properties up to 5kN/m² and offers up to 6 hours integrity and insulation, as follows:

- 6 hours fire resistance for 100mm thickness
- 4 hours fire resistance for 75mm thickness
- 4 hours fire resistance for 50mm thickness

In normal use, **FireMortar-360** will also maintain the sound reduction index of a structure. FireMortar-360 superior acoustic properties means it offers up to a 46dB sound reduction, making it ideal for high performance STC installations.

PHYSICAL SPECIFICATION

FireMortar-360 is an off-white free flowing powder that, when mixed with water, provides a strong, load bearing fire resistant mortar.

| | |
|-------------------------|--|
| Sizes available: | 20kg bags |
| Product code: | FM360 |
| Colour: | Off white |
| Density: | 1100kg/m ³ |
| FRL: | Up to -/360/360 |
| Fire barrier: | 6 hours at 100mm thickness 4 hours at 75mm thickness 4 hours at 50mm thickness |
| Rw Rating: | 46dB reduction at 100mm |

MIXING

FireMortar-360 is totally non-combustible and expands when activated with water, providing an excellent seal around openings, penetrations and services, and a strong bond to surrounding masonry.

FireMortar-360 can be mixed to a trowelable or pourable grade, and also can be reactivated by up to 2 hours by further mixing with water.

Pourable Grade: Powder:Water = 3:2

Trowelable Grade: Powder:Water = 2:1

STORAGE

FireMortar-360 should be stored ideally between 5°C and 25°C indoors and above ground. Keep in a dry, well ventilated area.

THICKNESSES AND FRLS – WALLS & FLOORS

FireMortar-360 can achieve -/360/360 up to a maximum opening size of 720mm x 720mm x 100mm.

It can also achieve -/240/240 for the following maximum dimensions:

- 1200mm x 1200mm x 100mm thick
- 600mm x any length* x 100mm thick

Other FireMortar-360 results are as follows:

| FireMortar-360 thickness (mm) | Max Opening size (mm) | FRL |
|-------------------------------|-----------------------|-----------|
| 50 | 600 x any length* | -/240/60 |
| 50 | 1200 x 1200 | -/240/60 |
| 75 | 600 x any length* | -/240/120 |
| 75 | 1200 x 1200 | -/240/120 |
| 100 | 600 x any length* | -/240/240 |
| 100 | 1200 x 1200 | -/240/240 |
| 100 | 720 x 720 | -/360/360 |

* supports are required at 1200mm intervals

FireMortar-360 can also be used with a variety of services which will not be detrimental to the integrity of the systems specified above.

The insulation of the service itself may diminish while the mortar face does not fail. Typical insulation values of penetrating services are as follows:

| FireMortar-360 thickness (mm) | Penetrating Service | Insulation (min) |
|-------------------------------|---------------------|------------------|
| 100 | Cable tray & cables | 60 |
| 105 | Damper & sleeve | 30 |
| 50 | Cable tray & cables | 30 |
| 50 | 75mm dia steel pipe | 23 |

REINFORCEMENT & SUPPORTS

Where the width of the FireMortar-360 specimen does not exceed 600mm, any practical length may be used provided steel supports are installed for reinforcement.

These supports must be fixed to the inside of the aperture with at least M8 concrete anchor bolts.

Support of a minimum of 30mm x 30mm x 1.6mm steel angle is to be used. Please contact BOSS Fire & Safety Technical Services for more information about supports and material.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Fire & Safety's attention relating to the fire resistance or performance of the product described, BOSS Fire & Safety reserve the right to amend this report.

BOSS Fire & Safety strive to constantly improve and develop products so this information may change without notice.

FURTHER TECHNICAL INFORMATION

For additional technical information on the performance of FireMortar-360 or other BOSS products please contact our Technical Services team on:

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