

LOAD BEARING FIRE PROTECTION



TECHNICAL DATA SHEET

FireMortar-360™

EDITION: 5

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APPROVED TO AS1530.4: 2014 & AS4072.1-2005

Fire resistant, load bearing gypsum based mortar for walls & floors.



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KEY BENEFITS

- Reinstates fire resistance through walls and floors
- Load bearing capabilities
- Multi-service penetrations
- Prevention of air leakage
- Maintains Acoustic performance
- Assumed working life 30 years
- For internal use

1. INTRODUCTION

FireMortar-360™ is a fire-resistant Gypsum based mortar material used to reinstate the fire resistance of openings in fire rated wall and floor substrates. **FireMortar-360™** also offers high performance fire stopping around services in order to prevent the passage of fire and smoke whilst offering load-bearing capabilities.

2. PROJECT APPLICATIONS

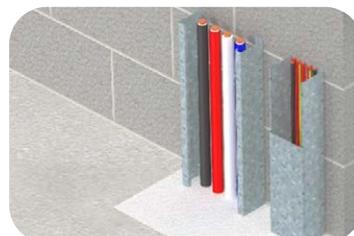
- Retail stores and shopping centres
- Residential apartments
- Commercial buildings
- Telecommunications / data centres
- Power stations / substations
- Factories / industrial applications
- Office fit-outs

Inteded Areas Of Use

- Aerated Concrete Floor Applications
- Concrete Floor Slab Penetrations
- Fire Rated Plasterboard Walls
- Rigid Fire Rated Walls

Product Advantages

- Reinstates fire resistance through walls and floors
- Load bearing capabilities
- Prevention of air leakage
- Maintains acoustic performance
- Assumed working life of 30 years
- For internal use
- Electrical Cable Penetrations
- Electrical Busbar Penetrations
- PVC, PP, PE & HDPE Pipe Penetrations in conjunction with other BOSS firestopping products
- Steel Pipe Penetrations



3. PRODUCT SPECIFICATION / CLASSIFICATION

TECHNICAL INFORMATION		
Material	Gypsum based mortar material	
Weight	20kg Bag	
Finish / Colour	Light Grey	
Minimum Install Temperature	5°C	
Shelf Life	12 months if stored in accordance with storage conditions	
Usage	6 x 20kg Bags per m ² @ 100mm Thick	
PHYSICAL SPECIFICATION		
Product Code	Product Name	Product Size
FM360	FireMortar-360™	20kg Bag
TESTING / CLASSIFICATION		
Standard	Description	Result
AS1530.4:2014 & AS4072.1-2005	Methods for fire tests on building materials, components and structures. Fire-resistance tests for elements of construction. Components for the protection of openings in fire-resistant separating elements. Part 1: Service penetrations and control Joints.	Up to FRL -/240/120 (For more information refer to FAS220105). For more information contact BOSS Fire on info@bossfire.com
BS EN 1366-3:2009	Fire resistance tests for service installations. Penetration seals.	
BS EN 13501-1 & BS EN 13501-2:2016	Fire classification of construction products and building elements.	
BS 476 : Parts 20 & 22	Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction.	
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials.	
ASTM E2923:14	Longevity of Fire Stop Materials.	30 years.
BS EN ISO 10140-2:2020	Laboratory measurement of sound insulation of building elements Measurement of airborne sound insulation.	Up to 59dB achievable. For more information contact BOSS Fire on info@bossfire.com

4. PERFORMANCE SPECIFICATIONS

FireMortar-360™ has extensive fire test approvals including AS1530.4: 2014, and AS4072.1-2005 offering up to FRL -/240/120.



IMPORTANT: In order to ensure performance and compliance, passive firestopping products must be installed in accordance with the test evidence, manufacturer's specifications or be the subject of a performance solution. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you read and understand the appropriate certification and how it relates to your specific construction details, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. Ensure your installation is carried out in accordance with the test certification, manufacturer's instructions, and in accordance with the relevant local building regulations, National Construction Code or Building Code. For updates on the range of BOSS Fire® certification, please contact BOSS Technical Services. **AU: 1300 502 677 NZ: 0800 502 677 Int: +61 2 9524 4040 Email: info@bossfire.com**

5. BOSS FIRE SYSTEM MATRIX

For specific summary information on the approved systems relevant to **FireMortar-360™** please refer to the **BOSS Fire System Matrix**. The **BOSS Fire System Matrix** is a filterable summary document containing information to help select the appropriate system relevant to your building application. Associated Test and Assessment Reports are also available for download from the Resources page at bossfire.com.au/resources.



6. INSTALLATION

Adequate space and accessibility should be provided for appropriate installation of the FireMortar-360™ system.

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose particles. Measure the size of the opening, relevant position and size of the services.

Fit suitable formwork to bottom of opening allowing for required depth to be achieved as outlined in FAS220105, in one single pour. It is the responsibility of the installer to ensure the formwork must be able to support the wet weight of the compound under pouring conditions.

FireMortar-360™ can be mixed, preferably by mechanical paddle, or manually if required. Measure out the correct amount of clean water into a clean container to achieve the desired consistency.

Mix ratios of FireMortar-360™. Water ratio per the following:

- Pourable Mix ratio of 3-3½ : 1
- Trowelable Mix ratio of 4 : 1

Gradually add the FireMortar-360™ stirring continually. Continue mixing until the FireMortar-360™ is mixed to a smooth even consistency. Any spillage should be wiped up with a damp cloth before setting occurs. Mix only enough material sufficient for use within the recommended pot life (5minutes). Pot life and set times will be reduced for lower water content and higher temperatures.

Installation should not be carried out when temperatures are above 35°C. Setting times are normally between 30 and 90 minutes however full cure time of 28 days must be adhered to, to achieve full fire resisting and load bearing capabilities.

Do not attempt to extend working time by remixing with additional water once the FireMortar-360™ has started to set, as this will interfere with the setting process. Always mix in clean buckets. Using dirty buckets containing remains of FireMortar-360™ from earlier mixes may reduce working time.

Pour/trowel FireMortar-360™ to the required depth as outlined in FAS220105. The depth required must be achieved in one single pour if installed in a floor.

Where services penetrations are present such as pipes and cables the appropriate ancillary system (if required) should be installed as shown in FAS220105. Combustible services will require a closure device such as MaxiCollar™, BOSS Pipe Wraps or UniWrap®. UniWrap® must also be sealed using FireMastic-300™ in accordance with FAS220105. Metallic pipes, cable bundles & cable trays may also require a thermal wrap in the form of P40-MAK Wrap™.

Refer FAS220105 for more information.

Clean all tools and application equipment with water immediately after use.

Installations should be suitably recorded and logged.

7. IS THIS PUBLICATION CURRENT?

This document may be superseded by new versions. If you are unsure of whether or not this document is a current publication, please contact us. **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040 **Email:** info@bossfire.com

8. HANDLING & STORAGE

For unopened material, store in a well-ventilated, dry, cool environment. Recommended temp ranges 5°C - 35°C. Protect against exposure to direct sunlight. Always ensure that safe manual handling procedures are followed at all times. Suitable protective clothing including gloves, face mask and eye protection must be worn at all times when handling mortar in a well-ventilated area.

9. LIMITATION

BOSS Passive Fire 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 Passive Fire's attention relating to the fire resistance or performance of the product described BOSS Passive Fire reserve the right to amend this report.

BOSS Passive Fire strive to constantly improve and develop products so this information may change without notice. The information contained herein has been developed as a guide only and it does not constitute a guarantee of compliance of all applications. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates on the range of BOSS Fire® certification, please contact BOSS Technical Services. **AU:** 1300 502 677 **NZ:** 0800 502 677 **Int:** +61 2 9524 4040 **Email:** info@bossfire.com



Further Information

For additional technical information on the performance of **FireMortar-360™** products and systems, other **BOSS Fire®** products or any other BOSS Fire® related information please contact us on:



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