

Product Data Sheet

Astro FM Compound

Revision 3 - July 2018



ASTRO FM COMPOUND

Product code - AFFC 20kg TCB112

CF613
Astro FM compound

Always follow manufacturers installation instructions.

APPLICATION

This is a premixed dry blend which is non combustible and designed to provide load bearing fire barrier seals through openings in floors and walls. An installation manual detailing full application and finishing instructions are available on request.

Produced :- 24-01-19

Batch No:- MO83751

MIXING INSTRUCTIONS - Warning, care must be taken when lifting.

When shuttering is installed use trowelable grade, approx 3 parts powder to 1 part water to seal small voids around penetrations. Finish fire seal with pourable grade using approx 2 parts powder to 1 part water to the required thickness, depending on the fire rating required. Based on the recommendations add the required amount of powder to water and mix to a smooth consistency using a power stirrer. Working time is 45-60 minutes and can be extended by remixing up to 2 hours.

STORAGE

Store off the ground in dry conditions and use within 6 months of the manufacture date as printed on the bag.

HEALTH AND SAFETY

Like all similar products that contain lime, this material releases alkali when wet which causes skin irritation or burns. wear suitable protective clothing, gloves and eye protection. wash off any material in direct contact with skin and replace saturated clothing. If material enters eyes, immediately rinse thoroughly with clean water.



Astro FM Compound

Fire Resistant Mortar

- Suitable for fire protecting large openings in floors and walls.
- Fire Resistance testing to EN 1366-3 EI 60, E 90, BS 476 - 300mins.
- Fire Classification EN 13501-2.
- Load bearing for 1.5kN, 2.5kN and 5kN.
- Up to 4 hours fire resistance for floors & walls.
- Acoustic Isolation testing to EN 10140 to 44dB.
- Air Permeability testing to EN 1026 to 600Pa.
- Load bearing up to 5kN.



Product Description

A one part synthetic mortar which when mixed with water produces a trowelable or pourable compound suitable for the sealing of openings in walls and floors to prevent the passage of fire and smoke.

The seal is strong, non combustible, can be made load bearing. Mortar has fire resistance to EN 1366-3 and BS 476 part 4 and 20. Up to 4 hours at 100mm thickness, 2 hours at 75mm thickness and 1 hour at 50mm thickness.

Additional services can be easily added through the mortar and resealed with further mortar. Where plastic pipes pass through the mortar, Astroflame Pipe Wraps should be used.

Tested to BS476: Part 20 Astroflame Fire Resistant Mortar can provide up to 6 hours fire resistance depending on depth/width.

Load bearing up to 5kN and suitable up to spans of 4700mm. Life expectancy of over 25 years.

Free of halogens, asbestos, fibres and silica and is non toxic.

Properties & Specification

Description	Off white free flowing powder
Density	1100-1111 kg/m ³
Fire Resistance - BS 467	4 hours at 100mm thickness 2 hours at 75mm thickness 1 hour at 50mm thickness
Insulation	100mm thick - 240 minutes on seal face 75mm thick - 120 minutes on seal face 50mm thick - 60 minutes on seal face
Fire Resistance - EN 1366-3	EI 60 E 90
Non Combustibility	In accordance with BS 476 part 4
Maximum Opening Span	4700mm
Load Bearing Specification	1.5, 2.5 and 5 kN/m ²
Mean Flexural Strength	2.12 N/mm
Compressive Strength	5.0 N/mm ²
Thermal Conductivity	0.289 W/mK
Air Permeability	600Pa EN 1026 - 100Pa 0.83/0.14 m ³ /hm ²
Sound Reduction	46 dB reduction at 100mm

Estimating quantities required

	By Volume Power: Water	1 Hour Seal 50mm Thick	2 Hour Seal 75mm Thick	4 Hour 100mm
Pourable	3:2 (approx)	48Kg dry motar per m ²	71Kg dry motar per m ²	95Kg dry motar per m ²
Trowelable Grade	2:1 (approx)	51Kg dry motar per m ²	75Kg dry motar per m ²	100Kg dry motar per m ²
Wall trowelable	3:1	48Kg dry motar per m ²	71Kg dry motar per m ²	95Kg dry motar per m ²

Product Availability

Available in 20kg bags.

Product Code	Product Description	Weight	Colour
AFFC	Astro FM Compound	20kilo	Off-White

To Order & Specify

Please contact us and quote the following information - Quantity / Product Code / Product Description / Weight
 Typical example:- 20 / AFFC / Astro FM Compound / 20kilo

>> Tel: [01329 844 500](tel:01329844500) or >> Email: sales@astroflame.com

Installation

Please see installation sheet - This can be requested from our sales team T: [01329 844 500](tel:01329844500)
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](tel:01329844500)
or E: sales@astroflame.com

Fire Test or Assessment Reports

- Fire Resistance testing to EN 1366-3 EI 60, E 90, BS 476 - 300mins.
- Fire Classification EN 13501-2.
- Load bearing for 1.5kN, 2.5kN and 5kN
- Up to 4 hours fire resistance for floors & walls
- Acoustic Isolation testing to EN 10140 to 44dB.
- Air Permeability testing to EN 1026 to 600Pa

Fire Test or Assessment Reports

Low VOC (air quality).
No Power Tools required for installation (no energy source required).
Dust free.
Smoke and Air Tightness.
Noise Reduction.
Thermal Insulation.
Recycling of Packaging.
Avoidance of Air Filtration.
Does not emit halogenated by-products.
Manufactured in accordance with ISO 14001.
Contains no raw materials known to have an estrogenic effect.
The life cycle of Fire Rated Mortar is over 25 years.

As part of our policy of ongoing improvements, we reserve the right to modify, alter or change product specifications without giving notice. Product illustrations are representations only. All information contained in this document is provided for guidance only, and as ASTROFLAME FIRESEALS LTD has no control over the installation methods of the products, or of the prevailing site conditions, no warranties expressed or implied are intended to be given as to the actual performance of the products mentioned or referred to, and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given of products mentioned or referred to herein.

The above information to the best of our knowledge is true and accurate and based upon current test data and is supplied for your guidance only. Customers should satisfy themselves to the suitability of the product in its intended use and no guarantee is given or implied since the conditions of actual use are beyond our control. ASTROflame (Fireseals) Ltd, disclaim any liability for loss, damage or other expense arising from the use of information, data or products mentioned or referred to and reserve the right to change any details or specifications without notice.