

Trade Name: ASTRO HS FM COMPOUND
High Strength Fire Mortar

Fire resistance:

120 mins @ 100mm thickness - BS476

EI 60 mins @ 100mm thickness - EN1366-3

E 120 mins I60 mins @ 100mm thickness - EN1366-3

Acoustic Isolation 46dB expected.

Tensile Strength 3N/mm².

Load Bearing - up to 10.29 kN/mm² (1000mm span).

Can be used in spans up to 2 metres wide.

Can be overpainted.



Description

Astro HS FM Compound is a one-part synthetic mortar used to seal openings in walls and floors to prevent the passage of fire and smoke.

It is mixed with water to produce a trowelable or pourable mortar compound.

The seal created is high strength and non combustible, with a fire resistance to EN 1366-3 2009 at 100mm thickness giving E120 / EI 90 / EI 60: it can be made load bearing.

- Can be reactivated with water to extend the working time.
- Free of halogens, asbestos, fibres & silica and is non toxic.
- Suitable for indoor and outdoor use & can be over painted.
- Not affected by fungus, vermin, rodents and is environmentally friendly.
- Long life and ease of use with minimum waste.
- Acoustic insulation properties

CE CE Marked Documents
'DoP's are Declarators of Performance
'CoC's are 'Certificates of Constancy'



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ETA-14/0047
ETAG 026 – Part 1
ETAG 026 – Part 2
ASTRO HS FM
COMPOUND
"see ETA-14/0047 for
relevant characteristics"

Application and Performance Data

Description	Off white free flowing powder
Density	1723 kg/m ³ Dry / 1957 kg/m ³ Wet
Fire Resistance	120 mins @ 100mm thickness – BS476 EI 60 mins @ 100mm thickness – EN1366-3 E 120 mins I60 mins @ 100mm thickness – EN1366-3
Non combustibility	In accordance with BS 476 part 4
Maximum Opening Span	2 metres
Load Bearing Specification	1000mm Span – 10.29 kN/mm ² 1200mm Span – 8.57 kN/mm ² 1500mm Span – 6.86 kN/mm ² 2000mm Span – 5.15 kN/mm ²
Tensile Strength	3 N/mm ²
Compressive Strength	20 N/mm ² @ 3 days 26 N/mm ² @ 7 days 30 N/mm ² @ 28 days
Thermal Conductivity	0.57 W/mK @ 50% - EN1745
Sound Reduction	46 dB reduction at 100 mm (EXPECTED)

Properties

Intumescent (swells as a result of heat exposure)	No
Colour	Off-white free flowing powder
BS 476 Fire Resistance	120 min
BS 476 Insulation	120 min
EN 1366-3 Fire Resistance	60 mins
EN 1366-3 Insulation	60 mins
Dry Density	1723 kg/m ³
Wet Density	1957 kg/m ³
Approvals	BS EN
Base Material	Synthetic
Mix ratio (mortar to water by weight)	3:1
Can be painted over	Yes
Weight	20kg
Shelf Life	12 months (stc)
Expansion on setting	0.08%
Setting Time	20 mins
Packaging	Paper valve sack
Compressive strength	3 day - 20 N/mm ²
Compressive strength	7 day - 26/Nmm ²
Compressive strength	28 day - 30N/mm ²
Tensile strength	3N/mm ²
Applicatio temperature range	5 to 40° C

Temperature resistance	- 5 to 100° C
Load Bearing Capacity	1000 mm Span - 10.29kN/m ²
Load Bearing Capacity	1200 mm Span - 8.57kN/m ²
Load Bearing Capacity	1500 mm Span - 6.86kN/m ²
Load Bearing Capacity	2000 mm Span 5.15kN/m ²
Thermal Conductivity - EN1745	0.57W/mK at 50% / 0.65W/mK at 90%
Yield at 3:1 mortar/water ratio	Approx 16L per bag

Availability

Astro HS FM Compound is supplied in 20kg bags.

Name	Dimensions	Colour	Product Code
Astro HS FM Compound	20kg Bag	Off-White	AFFCHS

To Order & Specify

Please quote - Quantity / Trade Name / Product Ref.
 Typical example:-
 10 / Astro Astro HS FM Compound/ AFFCHS

Fire Test or Assessment Reports

BS 476 Fire Resistance, 120 min
 BS 476 Insulation, 120 min
 EN 1366-3 Fire Resistance, 60 mins
 EN 1366-3 Insulation, 60 mins
 Fire resistance testing to EN

Installation

For further information see Installation Sheet.

Health and Safety

See COSHH datasheet for full details.

Environmental Impact

Low VOC (air quality).
 No Power Tools required for installation (no energy source required).
 Dust free.
 Low Ozone Depletion Potential (ODP).
 Low Global Warming Potential (GWP).
 Smoke and Air Tightness.
 Noise Reduction.
 Thermal Insulation.
 Recycling of Packaging.
 Avoidance of Air Filtration.
 Manufactured in accordance with ISO 14001.
 HS FM is manufactured from recycled components
 The life cycle of Astro HS FM Compound is over 20 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

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Customers should satisfy themselves

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