



Fire Protection Systems

Product Catalogue



Introduction

Master Builders Solutions

The Master Builders Solutions brand brings all of expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We at Master Builders Solutions leverage global technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make more successful and drive sustainable construction.

Market leading products are developed from technically advanced formulations, optimized for the harsh environmental conditions found in the Middle East.

Our Comprehensive Portfolio



Concrete admixtures



Cement additives



Chemical solutions for underground construction



Concrete repair and protection solutions



Waterproofing solutions



Performance flooring solutions



Tile fixing systems



Sealants



Performance grouts



Wall systems



Expansion control systems



Fire protection systems

Product selection chart

MasterFlame products

Product	Description	Acrylic-based	Silicone-based	Graphite based	Stone fiber board	Gypsum-based mortar	Steel	Elastomeric thermoplastic polymers	Sealant gun	Spray/ brush/ trowel
Firestop sealant										
MasterFlame JS 110	Firestop and acoustic sealant	•							•	
MasterFlame JS 125	Elastomeric firestop sealant		•						•	
MasterFlame JS 225	High performance, intumescent, firestop sealant			•					•	
Firestop coating										
MasterFlame C 3005	Flexible firestop coating	•								•
MasterFlame C 3000	Firestop coating	•								•
MasterFlame C 3000CA	Firestop cable coating	•								•
Firestop board										
MasterFlame B 302	Pre-coated firestop board				•					
Firestop mortar										
MasterFlame MO 700	Firestop mortar					•				•
Pipe collar										
MasterFlame PC 2350	Firestop pipe collar						•			
Firestop pillow										
MasterFlame PI 2502	Firestop pillow									
Pipe wrap										
MasterFlame PW 2252	Firestop pipe wrap							•		

Firestop sealant

MasterFlame JS 110

Firestop and acoustic sealant

Coverage/Yield

Floor & Wall Joint Size	Backing	Gap Face Material	Integrity Rating	Insulation Rating (mins)	Linear Metres per Cartridge
10mm x 10mm	PE Closed Cell Foam	AAC/AAC	300	300	3.1
20mm x 10mm	PE Closed Cell Foam	AAC/AAC	300	300	1.55
30mm x 15mm	PE Closed Cell Foam	AAC/AAC	300	215	0.69
40mm x 20mm	PE Closed Cell Foam	AAC/AAC	300	214	0.39
50mm x 25mm	PE Closed Cell Foam	AAC/AAC	300	214	0.25
20mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	1.03
30mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	0.69

Packaging

600ml sausages (15 cartridges/box)



Benefits:

- Fire resistance tested in flexible walls, rigid walls and floors
- Tested in linear joints up to 50mm wide
- Tested in large service openings up to 490 x 150mm
- Tested with metallic pipes, cables, cable bunches, cable trays and cable ladders
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components
- For use in low movement joints, remains flexible
- Halogen free, resists fungi and vermin
- Paintable system not tested for fire protection properties. Compatibility of paints needs to be checked before application

Application areas:

- MasterFlame JS 110 is used to reinstate the fire resistance performance of wall and floor constructions where they have been provided with openings for the penetrations of multiple services, also to form linear gap seals where gaps are present within the wall and floor constructions and linear joints where wall and floor constructions abut
- MasterFlame JS 110 is used for sealing MasterFlame B 302 pre-coated fire stop boards

Performance Characteristics

Colors	Grey, White
Specific gravity ISO 2811-1: 2011	1.52-1.62g/cm ³
Cure rate	3mm per day @ 50% relative humidity 23°C
Tack free	30 mins @ 23°C, 50% RH
Joint Movement EN 1366-4:2006 + A1:2010	Remains flexible ±7.5%
Fire resistance EN 1366-3 EN 1366-4	Up to 2 hours Up to 4 hours
Acoustic rating EN ISO 10140-2:2010	Up to 61dB
Air Permeability EN 1314 (to 600Pa)	100Pa 0.0/0.0 m ³ /m ² /h

Firestop sealant

MasterFlame JS 125

Elastomeric firestop sealant

Coverage/Yield

Joint Size Width x depth	Backing	Joint configuration	Integrity Rating (mins)	Insulation Rating (mins)	Linear Metres per Sausage
6mm x 10mm	PE Closed Cell Foam	Single Seal	60	30	10
6mm x 10mm	PE Closed Cell Foam	Dual Seal	240	240	5.0
10mm x 10mm	PE Closed Cell Foam	Single Seal	60	30	6.0
10mm x 10mm	PE Closed Cell Foam	Dual Seal	240	240	3.0
15mm x 10mm	PE Closed Cell Foam	Single Seal	120	90	4.0
15mm x 10mm	PE Closed Cell Foam	Dual Seal	240	240	2.0
20mm x 10mm	PE Closed Cell Foam	Single Seal	120	91	3.0
20mm x 10mm	PE Closed Cell Foam	Dual Seal	240	240	1.5
25mm x 10mm	PE Closed Cell Foam	Single Seal	120	90	2.4
25mm x 10mm	PE Closed Cell Foam	Dual Seal	240	240	1.2

Packaging

600ml cartridges (15 cartridges/box)



Benefits:

- Fire resistant up to 4 hours in both horizontal and vertical joints
- Can be used in joints up to 60mm wide
- Non-slump, easy to apply and tool off
- No priming required for most substrates
- Highly flexible and waterproof
- High movement capability and excellent elastic recovery for long life elastic sealing of movement joints
- Excellent UV resistance and color stability
- Excellent weatherability with long life expectancy
- Internal and external use

Application areas:

- MasterFlame JS 125 can be used for fire protection on sealing of expansion joints, door frames, block work walls and external ACP joints (Aluminium Composite Panel), etc.

Performance Characteristics

Colors	Black, Grey, White
Specific gravity	1.33-1.37 g/cm ³
Shrinkage	Approximately 5%
Cure rate (25°C 50% RH)	3mm per day
Tack free (25°C 50% RH)	20 mins
Joint Movement	±25% of original joint size
Fire Resistance EN 1366-4	Upto 4 hours
Acoustic rating EN 10140-2 : 2010	38dB
Air Permeability EN 1314-1 to 600Pa	100 Pa 2.8/5.6 m ³ /m ² /hs
Elastic Recovery	>90%

Firestop sealant

MasterFlame JS 225

High performance, intumescent, firestop sealant

Packaging

600ml sausage (15 sausages/box)



Benefits:

- Suitable for use in block wall, concrete, masonry, plasterboard and pre-coated firestop board MasterFlame B 302
- Tested in linear joints up to 20mm wide
- Tested in large service openings up to 300 x 100mm and 200 x 200mm
- Tested with insulated metallic pipes, cables, cable bunches (inc telecommunication), cable trays and cable ladders
- Tested with combustible pipes up to 125mm dia - PVC, HDPE and ABS
- Tested for use with sealing Armaflex and glass wool insulation
- Suitable for use in irregular applications
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components
- Easy clean up with water and is odorless
- Long life and paintable
- Smoke, gas, water and air tight
- High expansion ratio to close openings
- Resists fungi and vermin

Application areas:

- MasterFlame JS 225 is intended for use in service penetrations through walls and floors where fire integrity and insulation needs to be preserved. Under fire conditions the product swells and exerts pressure to the surrounding substrates leading to closure of the penetration. The integrity and insulation is then maintained by the stability of the remaining product char.

Performance Characteristics

Color	Black
Specific gravity	1.23-1.33 g/cm ³
Cure time	1.7mm per 24hrs
Fire Resistance	EN 1366-3 Up to 4 hours EN 1366-4 Up to 2 hours
Air Permeability EN 1314-1 (to 600Pa)	100 Pa 11.1/16.7 m ³ /m ² /h
Plastic pipe types covered	PVC, HDPE and ABS
Shore Hardness A ISO 7619-1:2010	68
Expansion Onset Temperature	180°C
Expansion	Up to 20 times
Skin time @ 25°C / 50%RH	15 minutes
pH	8 – 9

Firestop coating

MasterFlame C 3005

Flexible firestop coating

Coverage/Yield

1.3-1.4kg/m² at 1mm dft

Packaging

20 kg



Benefits:

- Joint movement capability of +/- 50%
- Dynamic movement testing 500 cycles per 30 minutes
- Highly flexible and water resistant
- Halogen free, resists fungi and vermin
- Can be spray, brush, pour or trowel applied
- Ideal for slab edge applications, head of wall and movement installations
- Suitable for voids up to 500mm wide
- Install on base of 80kg/m³ stone wool

Application areas:

- MasterFlame C 3005 has been developed for use on stone wool or elastomeric base. Once the MasterFlame C 3005 is applied it prevents the passage of fire, smoke and sound between fire rated compartments giving a fire resistance tested to EN 1366-4 EI 120
- Can be installed in to voids / cavities up to 500mm wide

Performance Characteristics

Color	White
Specific gravity	1.3-1.4 g/cm ³
Cure Rate @ 50% relative humidity 23°C	0.5mm per day
Tack free @ 23°C, 50% RH	6 hours
Fire Resistance	Up to 4 hours
Acoustic rating EN ISO 10140- 2:2010	40dB when installed with 100mm thick 80kg/m ³ stone wool 49dB when installed with 200mm thick 80kg/m ³ stone wool
Air Permeability EN 1314 (to 600Pa)	100Pa 0.4/1.5 m ³ /h/m ²
Water Permeability 300 Pa EN 1027	No Leakage
Movement @ 500 cycles per 30 mins	50% expansion and compression
Coating thickness	2.5mm nominal wet coating thickness

Firestop coating

MasterFlame C 3000

Firestop coating

Coverage/Yield

1.35kg/m² @ 1mm dft

Packaging

20 kg



Benefits:

- Tested and approved for use in block wall, concrete, masonry plasterboard partitions and concrete floors
- Can be spray, brush or trowel applied
- Suitable for indoor use without additional environmental protection
- Remains flexible between -5°C to +70°C
- Easy to use, fibre free coating
- Flexible and water resistant
- Halogen and asbestos free, resists fungi and vermin
- VOC free

Application areas:

- MasterFlame C 3000 has been specifically developed to seal MasterFlame B 302 pre-coated firestop board once installed in the opening. Once it is applied it prevents the passage of fire and smoke between fire rated compartments giving up to 2 hours fire resistance to EN 1366-3.

Performance Characteristics

Property	Results
Color	White
Specific Gravity	1.25-1.35 g/cm ³
Cure Rate @ 50% relative humidity 23°C	0.5 mm per day
Tack Free @ 23°C, 50% RH	6 hours
Fire Resistance EN 1366-3	Up to 2 hours
Acoustic rating EN ISO 10140-2:2010	Up to 58 dB
Air Permeability EN 1314 (to 600Pa)	100 Pa 1.8/1.4 m ³ /h/m ²

Firestop coating

MasterFlame C 3000CA

Firestop cable coating

Coverage/Yield

3.0 kg/m² for level surface. For grouped cables or cables on trays allow 30% more material considering the curved cable surfaces

Packaging

35 kg



Benefits:

- Does not derate electrical cables
- Totally weather and water resistant
- Has an LOI of 100 which means it does not even burn in a 100% oxygen environment
- MasterFlame C 3000CA is in no way affecting the human health system. It is nontoxic, solvent-free, phosphatefree and does not contain asbestos or any other substances identified as being carcinogenic
- MasterFlame C 3000CA is practically odorless and does not affect the human skin

Application areas:

- Prevents flame propagation along vertical and horizontal cable ways
- Also delays short circuit whereby circuit integrity depends on the distance of the cables from fire and the incurred temperature

Performance Characteristics

Colour	Off-white
Viscosity	50,000 mPas
Density	1.43 g/cm ³
pH value	approx. 8.0
Solids content	approx. 70%
Limiting Oxygen Index (LOI) ASTM D2863	≥ 95
Drying time	depending on temperature and humidity to the touch: within 24 hours (20°C/65% RH) cured: approx. 3 days (20°C/65% RH)
Thermal conductivity	$\lambda = 0.69 \text{ W m}^{-1} \cdot \text{K}^{-1}$ at 25°C
Specific resistance	$\rho = 1.06 \cdot 10^9 \text{ (Ohm} \cdot \text{cm)}$ at 23°C/50% RH $\rho = 4.10 \cdot 10^5 \text{ (Ohm} \cdot \text{cm)}$ at 23°C/83% RH

Firestop board

MasterFlame B 302

Pre-coated firestop board

Sizes

1200 x 600 x 50mm

Benefits:

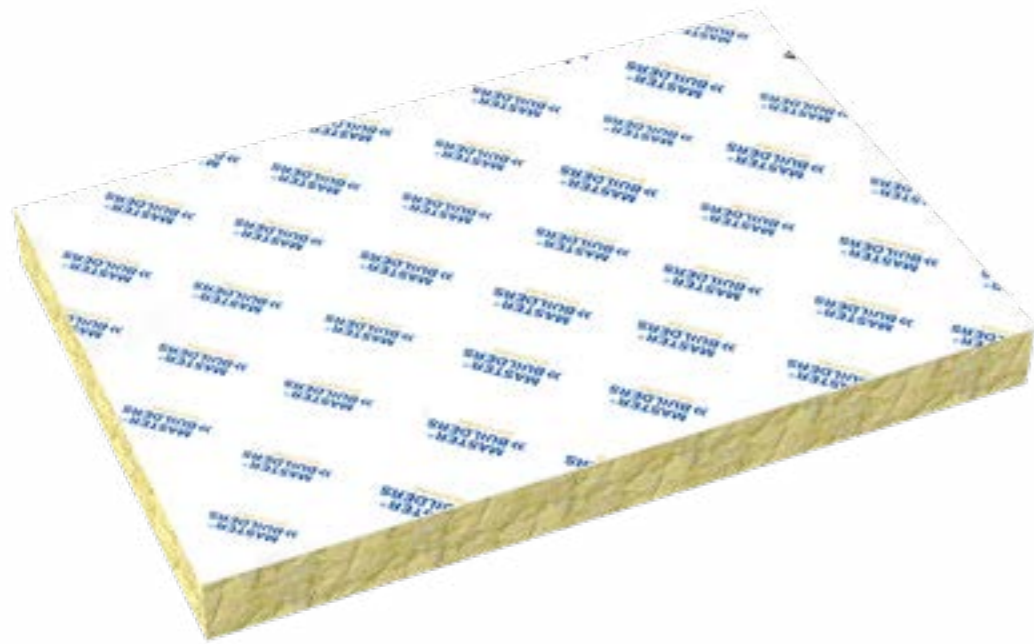
- Fire resistance tested in flexible walls, rigid walls and floors
- Suitable for indoor use without additional environmental protection
- Easy to use fibre free sealant
- MasterFlame B 302 standard 50mm thickness board gives 2 hours fire and smoke barrier and up to 2 hours insulation
- Suitable for large openings in walls and floors with additional supports

Application areas:

- MasterFlame B 302 pre-coated firestop boards are designed to prevent the passage of fire and smoke between compartment walls and floors built from masonry, composite partition or plasterboard

Performance Characteristics

Stone Fibre Density	>140kg/m ³
Fire Resistance EN 1366-3	Up to 2 hours
Acoustic rating EN ISO 10140-2:2010	Up to 58dB
Air Permeability EN 1026 (to 600Pa)	100Pa 1.8/1.4 m ³ /h/m ²



Firestop mortar

MasterFlame MO 700

Firestop mortar

Coverage/Yield

80kg/m² @ 100mm thickness

4 bags / m² @ 100mm thick mortar

Packaging

20 kg



Benefits:

- Fire Integrity up to 4 hours
- Rapid setting, zero shrinkage formulation
- Can be used as pourable or trowel grade, gas tight seals
- Excellent workability ranging from stiff to pourable mix
- Good load bearing performance in floor apertures
- Contains no asbestos

Application areas:

- MasterFlame MO 700 is intended for sealing around all types of M&E service penetrations through floors and walls, where a rigid seal is required

Performance Characteristics

Density	850-950 kg/m ³
Load bearing	2.5 kN/m ² UDL
Fire resistance	Upto 4 hours
Acoustic performance R>w (C; Ctr) (dB)	47dB reduction @ 100mm
Max unsupported span	700mm (Consult Master Builders Solutions for larger spans)
Thermal conductivity (U Value) @100mm	0.21 - U Value I / 'R' 2.1
Thermal resistance 'R' (t/k) @100mm	0.48
Expansion on Setting	0.1%

Pipe collar

MasterFlame PC 2350

Firestop pipe collar

Sizes

40mm to 250mm (2 pcs/box)



Benefits:

- Suitable for use with flexible walls with 100mm minimum thickness, rigid wall with 100mm minimum thickness and rigid floors with 150mm minimum thickness
- Allows thermal and mechanical movement of pipe
- Halogen free, contains no asbestos, ceramic and is environmentally friendly
- Ease of fixing to suit location - 5 fixing types available
- Not affected by fungus, vermin, rodents or moisture
- Tested for external use
- Long life

Application areas:

- MasterFlame PC 2350 is designed and tested to seal service penetration openings containing plastic pipes, metallic pipes with insulation and cables
- MasterFlame PC 2350 can be installed on flexible wall, rigid wall, rigid floor constructions and precoated firestop board MasterFlame B 302. They are compatible with polypropylene (PP), polyethylene (PE) and polyvinyl chloride (PVC) pipes and can be used upto a maximum diameter of 250mm
- MasterFlame PC 2350 is intended for use indoor and outdoor in conditions exposed to weathering with exposure to UV and humidity equal to or higher than 85% RH

Performance Characteristics

Color	Blue
Fire Resistance EN 1366-3:2009	Up to 4 hours
Expansion Rate	20:1
Expansion Pressure	11.28 Bar / 1.12 N/mm ²
Working Temperature	-20°C to +120°C
Fixing Detail	3 No 60mm x 6mm Expanding Anchors Rigid Floors 3 No Size 70 Wood Screws Rigid Walls 3 No 65 mm Spider Fixing Flexible Walls 3 No 35mm Tap in Fixings
Plastic pipe types covered	PVC-U, PVC-C, ABS, SAN + PVC, PE-HD, PE, PP

Firestop pillow

MasterFlame PI 2502

Firestop pillow

Coverage/Yield

Small - As required to fill small voids

Medium - 180 pcs in wall or floor for 1m²

Large - 113 pcs in wall or floor for 1m²

Packaging

Type	Size & weight	Quantities/box
Small	330mm x 50mm x 20mm - 50gms	50 pcs/box
Medium	330mm x 200mm x 25mm - 185gms	50 pcs/box
Large	330mm x 200mm x 45mm - 385gms	25 pcs/box

Benefits:

- Fire resistance tested in rigid walls & floors
- Tested with metallic pipes, cables, cable bunches, cable trays and cable ladders
- Reaction temperature 180°C
- High expansion ratio
- Remains flexible between -20°C to +130°C
- Waterproof lining unaffected by damp conditions
- Suitable for indoor and outdoor locations up to 1m²
- Non-combustible and non-toxic
- Ease of installation and long life

Performance Characteristics

Color	Silver
Fire Resistance EN 1366-4	Up to 2 hours
Acoustic Isolation EN 10140-2 : 2010	Up to 43dB
Air Permeability EN 1026 (to 420Pa)	100Pa 22.8/31.1 m ³ /h/m ²
Colour	Silver



Pipe wrap

MasterFlame PW 2252

Firestop pipe wrap

Sizes

40mm x 25m x 2mm

Benefits:

- Fire resistance tested in flexible and rigid walls and rigid floors
- Versatility when installing in a multitude of common site conditions
- Can be use with plastic pipes e.g. PVC, HDPE, PP, PE, ABS, PVC-C and SAN + PVC
- Can be used to close off various types of insulation around metallic pipes
- Causes no known effects to plastic pipes
- Thermoplastic composite and non-toxic
- Halogen free, contains no asbestos, ceramic, mineral fibres and is environmentally friendly
- Not affected by fungus, vermin or rodents
- Tested upto 200mm plastic pipes

Application areas:

- MasterFlame PW 2252 can be used with various pipes and insulation
- MasterFlame PW 2252 is tested upto 200mm in diameter through flexible walls and rigid floors. MasterFlame PW 2252 is also used alongside other MasterFlame range of Firestop systems

Performance Characteristics

Color	Black with yellow disposable foil backing
Density	Approximately 1.2 g/cm ³
Volume Expansion at 450°C	Approximately 25 times
Fire Resistance EN 1366-3	Upto 2 hours



Our Services



Master Builders Solutions approved applicators

Master Builders Solutions has a network of business partners – specially trained by Master Builders Solutions in the use of our products and systems. Approved applicators will offer the best possible service to ensure that projects are completed to customers' satisfaction.



Specialized technical services

Our highly specialized technical service team offers a unique and distinctive service. Our technicians can help you in all phases of the work: from project preparation to project implementation and the post-completion stage.



Support for designers and specifiers

We work on all stages of the value stream. Master Builders Solutions has a team of specialized technicians providing support to surveyors, engineers, architects and specifiers in general during all phases of construction projects. Our team of technical specifiers work for designers every day, offering answers to their questions.



Sales team to serving our customers

Our sales team is active nationwide and can provide the support and advice you need to solve all your construction challenges.



Wide range of products and solutions for construction

Master Builders Solutions offers complete systems for concrete waterproofing, sealants, admixtures, concrete repair and protection, as well as our proven high-quality performance flooring solutions.



All the information you need at your fingertips

Download our official application of Master Builders Solutions on your mobile phone for free. In our App, you can consult product data sheets, catalogues, construction systems, videos and much more useful information. You can also check our website www.master-builders-solutions.com/en-ae

Building the future with the digital services of Master Builders Solutions: fast, easy and smart

BIM Objects & Digital Construction Tools

With more than 200 BIM objects, and soon more than 400 Revit models, the Master Builders Solutions BIM portfolio is the largest in the construction chemicals industry. It covers thirteen construction industry segments, such as Waterproofing Systems, Performance Flooring, Concrete Repair or Protective Coatings, as well as Expansion Control Systems and Wall Systems.

www.bimobject.com/en/mbcc-group

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