

# MasterSeal<sup>®</sup> FP 110

## Intumescent fire resistant sealant

### DESCRIPTION

**MasterSeal FP 110** is a one part, acrylic emulsion. It is designed to resist the passage of fire, smoke, air and sound. The sealant will intumesce and form a char when exposed to the heat of a fire that prevents the passage, of fire and smoke. In normal use it will maintain the sound reduction index of a structure.

**MasterSeal FP 110** does not emit halogenated by-products under fire conditions, and contains no raw materials known to have an estrogenic effect in the environment. It has good unprimed adhesion to a wide variety of common building substrates.

### ADVANTAGES

- Fire resistance tested in flexible walls, rigid walls and floors.
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components.
- Contributes to Green Building.
- For use in low movement joints, remains flexible.
- Advanced formulation.
- Halogen free, resists fungi and vermin

### PACKAGING

**MasterSeal FP 110** is available in 310ml cartridges, 25 per box.

### COLOUR

**MasterSeal FP 110** is available in White.

### TECHNICAL DATA\*

Fire rating	upto 4 hours
Average sound reduction	48 dB
U.V Resistance	Good
Water Resistance	Good when fully cured
Tack Free	30 mins at 23°C, 50% RH
Application temperature	+5°C to +40°C
Specific Gravity	1.52 - 1.62 g/cm <sup>3</sup>
Cure Rate	3mm per day at 50% relative humidity 23°C
Shrinkage	Approximately 12%
Slump	5mm after 1 hour in 30mm joints

### INSTALLATION

- Clean all joints free from dust, oil and grease.
- Masking surrounding surfaces if necessary.
- Ensure gap is filled using a closed-cell backer rod.
- Fill gap to the required depth, tool off for a smooth finish.
- Minimum depth to be 6mm

### SHELF LIFE

**MasterSeal FP 110** has a shelf life of 18 months.

### STORAGE & DISPOSAL

**MasterSeal FP 110** may not be affected by an outdoor environment. However, for long term storage and ease of installation, it is recommended that it should be stored indoors ideally in dry frost free conditions above 0°C and below +30°C.

For health and safety details refer to BASF Technical Department.

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## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

## FIRE PERFORMANCE

Floor & Wall Joint Size	Backing	Gap Face Material	Integrity Rating	Insulation Rating (mins)	Linear Metres per Cartridge
5mm x 10mm	PE Closed Cell Foam	AAC/AAC	300	300	6.2
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
25mm x 15mm	PE Closed Cell Foam	AAC/AAC	300	215	0.83
30mm x 15mm	PE Closed Cell Foam	AAC/AAC	300	215	0.69
35mm x 20mm	PE Closed Cell Foam	AAC/AAC	300	214	0.44
40mm x 20mm	PE Closed Cell Foam	AAC/AAC	300	214	0.39
45mm x 25mm	PE Closed Cell Foam	AAC/AAC	300	214	0.28
50mm x 25mm	PE Closed Cell Foam	AAC/AAC	300	214	0.25
6mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	4.13
10mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	2.07
15mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	1.38
20mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	1.03
25mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	0.83
30mm x 15mm	PE Closed Cell Foam	AAC/STEEL	300	91	0.69
10mm x 12.5mm	PE Closed Cell Foam	PB/AAC	120	120	2.9
20mm x 12.5mm	PE Closed Cell Foam	PB/PB	120	120	1.45
Small Cables	None	PB/PB	120	120	N/A
Medium Cables	None	PB/PB	120	120	N/A
Large Cables	MMF	PB/PB	120	120	N/A
Metallic Pipes	None	PB/PB	120	120	N/A

\* Insulation in floor reduces by 50%, however Integrity remains the same

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

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