

# Fire resistant acoustic air leakage silicone sealant

## SILICONE SEALANT M703

### FOR ALL BUILDING AND CONSTRUCTION JOINTS

Nullfire M703 is a single-part alkoxy-based fire resistant, elastomeric, neutral cure silicone sealant. M703 provides up to 5 hours fire protection at internal and external building gaps and movement joints. It allows up to 50% movement. It also provides fire protection around service penetrations. In addition, this product can ensure that the acoustic performance of the substrate is maintained. M703 has been fully tested to comply with the air leakage requirement of 'Approved Document L'.

#### Key features

- Up to 5 hours fire resistance
- Suitable for gaps up to 50mm wide
- No insulative backing material required for fire performance, PE backing rod for depth gauge only
- Excellent tool ability and low slump characteristics
- Width to depth ration of 2:1 (10mm wide 5mm deep)
- Accommodates movement up to 50%
- Weather and UV resistant
- Resistant to mould fungus and vermin attack
- Smoke, gas and hermetically air tight
- Can be used for external applications
- Water resistant

## Product overview

### Typical applications

- Expansion joints in compartment walls and floors
- Sealing in and around lightweight flexible partitioning
- Gaps between timber and steel doors and window frames and the substrate
- Decorative joints
- Sealing around service penetration, steel pipes, steel ducts, duct trays, cables and cable trays
- Used in conjunction with Nullfire B747 Coated Board System for large service penetrations
- Can be used for external joint applications

### Joint substrates

- Masonry to masonry
- Masonry to steel
- Steel to steel
- Masonry to timber (hardwood and softwood)
- Around pipes and services

### Testing and certification

#### Fire performance

- Tested in accordance with BS EN 1366-4
- Up to 5 hours fire resistance
- Classification EN 13501

#### Acoustic performance

- Tested in accordance with EN ISO 140-3

#### Air permeability performance

- Tested in accordance with EN 1026

### Technical support

Please refer to our MSDS and technical application data sheets for further details. For guidance on applications outside this scope, contact our technical department.



## Properties

Solid content	94-97%
Specific gravity	1.35g/cm <sup>3</sup>
Viscosity	Thixtropic
Tensile strength	285kN/m <sup>2</sup>
Touch dry @ 20°C	15 mins
Cure through time @ 20°C	20 days
VOC	54g/ltr

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## Installation guidance

### Preparation

- Clean all surfaces of loose particles, moisture, oils, grease and corrosive materials
- Abrade painted or shiny surfaces
- Check specification is suitable for movement, fire rating and gap size

### Installation

1. Install PE backing strip to required depth of seal
2. Cut nozzle of cartridge to suit bead size
3. Abrade surface if glossy or non-porous
4. Extrude mastic using skeleton gun into dry dust free joint
5. Ensure contact is made with all surfaces
6. Seal ratio 2:1 (width/depth)

Refer to full application instruction for further details.

### Maintenance

No maintenance required after installation. Routine inspection recommended to ensure no damage.

### Tools required

- Suitable skeleton/sausage gun, 310ml/600ml
- Palette knife and spatula

## Fire performance

Substrate	Tested gap widths	Integrity (mins)	Insulation (mins)
<b>Wall (Double seal)</b>		<b>Seal depth ratio (width-depth) 2:1</b>	
Masonry – Masonry	up to 29mm	300	180
	30-50mm	300	300
Masonry – Softwood	up to 29mm	90	60
	30-49mm	90	90
	50mm	180	180
Masonry – Hardwood	up to 49mm	120	120
	50mm	180	180
Masonry – Steel	up to 12mm	300	60
	13-29mm	240	60
	50mm	300	120
<b>Floor (Single seal)</b>		<b>Seal depth ratio (width-depth) 2:1</b>	
Masonry – Masonry	up to 12mm	300	180
	13-50mm	300	60
Masonry – Steel	12-50mm	240	30

## Product range

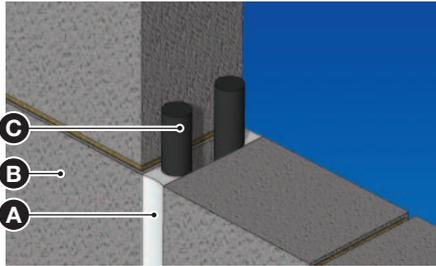
Product	Description	Colour	Volume	Item No.
M703	Silicone Sealant	White	310ml cartridge x 12	351001
M703	Silicone Sealant	Grey	310ml cartridge x 12	351002
M703	Silicone Sealant	White	600ml sausage x 12	351019
M703	Silicone Sealant	Grey	600ml sausage x 12	351017

## Associated products

Product	Description
Skeleton Gun	310ml Cartridge dispenser
Skeleton Gun	600ml Sausage dispenser
PE Backing Rod/Spacer	Polythene rod

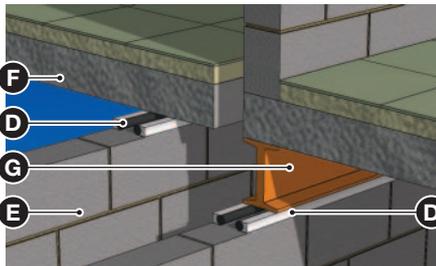
## Application types

### Vertical movement joint



- A** M703 Silicone Sealant
- B** Masonry wall
- C** PE backing spacer

### Head of wall/horizontal movement joint



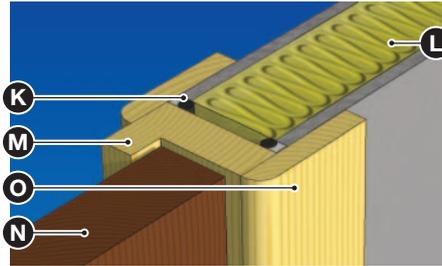
- D** M703 Silicone Sealant
- E** Masonry wall
- F** Floor slab
- G** Steel beam

### Window frame



- H** M703 Silicone Sealant
- I** Wall/soffit substrate
- J** Window frame

### Door frame



- K** M703 Silicone Sealant
- L** Wall substrate
- M** Timber/steel door frame
- N** Door leaf
- O** Architrave