

# Nullifire M703 - Silicone Sealant

May 2007 – UK - M703 - APP  
Revision 1

Page 1 of 3

## 1. PRODUCT DESCRIPTION

---

M703 is a solventless fire resistant sealant for sealing movement joints in compartment walls and floors. It has a movement accommodation of  $\pm 40\%$ .

## 2. INSTALLATION CHECK LIST

---

- Ensure specification is suitable to meet criteria for movement, fire rating and gap size.
- Check that M710 Backing Rod is available if required.
- Ensure depth of seal is suitable for gap size.
- Check that abutting faces of the joint are level to ensure a flush finish.
- Ensure surface is suitably prepared.
- Read installation instructions before starting the work.

## 3. PRODUCT INFORMATION

---

Under fire conditions, M703 creates an insulating barrier whilst remaining flexible on the non-fire side. This accommodates further movement during the fire.

Properties	Values
Solids content	97%
pH value	8.0
Flashpoint	120°C
Specific gravity	1.40
Viscosity	Thixotropic
Tensile strength	900kN/m <sup>2</sup> (0.90MPa)
Touch dry @ 20°C	10 minutes
Cure through time @ 20°C	30 days (20mm depth)
Minimum shelf life	12 months (0°C to 35°C)
Polyethylene Backing Rod	System M710 in 6,10,12,15,20,25 and 30mm diameters (cut to length)
Testing Approvals & Building Standard	BS476 Part 20 & 23
Colour Range	White & Grey
Application	Internal/External use
Packaging	310ml cartridges (12 per box)

## 4. PREPARATION

---

It is recommended that joints should be designed to BS 6093 (1993) and have a minimum depth of 5mm. The optimum performance ratio is 2:1 width:depth. A minimum of 5mm depth should be used.

Correct preparation is essential to ensure the joint system performs to requirements.

Dust, loose particles, moisture, oils, grease and corrosion products must be removed before commencing installation.

Painted or shiny surfaces must be abraded to form a key.

A primer is not required on most common construction substrates.

# Nullifire M703 - Silicone Sealant

May 2007 – UK - M703 - APP  
Revision 1

Page 2 of 3

## 5. INSTALLATION INSTRUCTIONS

Use a backing rod to ensure correct seal depth and profile (Nullifire Backing Rod M710) and insert into joint prior to application of M703 Silicone Sealant.

M703 should be applied against a firm backing so that it is forced against the sides of the joint, during installation and tooling, to ensure good adhesion. The correct installation of the back-up material (M710 Backing Rods) enables the required shape and properties of the sealant to be achieved. The M710 Backing Rod should be oversized to maximum joint width enabling it to resist installation and tooling.

Do not use polystyrene or other non-flexible materials as backing.

Cut nozzle of cartridge to required bead size. Use a cartridge/skeleton gun to apply the sealant.

Ensure good contact is made with all surfaces and that the joint is filled to the required depth.

Tool to a smooth finish immediately with a wet palette knife or spatula.

System M703 cannot be over-painted

Substrate	Gap Width mm	Seal Depth mm	Integrity (mins)		Insulation (mins)	
			Single Seal	Double Seal	Single Seal	Double Seal
B/W-B/W Con-con (min 125mm thick)	10	5	240	240	30	99
	20	10	240	240	30	90
	30	15	240	240	30	120
B/W or con-steel (215mm thick, steel 6mm thick)	10	15	-	240	-	240
	20	15	-	240	-	240
	30	15	-	30	-	240
B/W or conc-timber (based on timber density 450 kg/m <sup>3</sup> )	10	25	30	30	-	-
	20	25	30	30	-	-
	30	25	30	30	-	-
	10	45	60	60	-	-
	20	45	60	60	-	-
30	24	60	60	-	-	

A single seal on either the fire or non-fire side faces may be used as above with a non-flammable backing material (mineral fibre or ceramic fibre).

If double seals are used then a standard polyethylene backing rod (M710) should be used.

### TO CALCULATE QUANTITIES

To determine the amount of M703 you require, calculate as below:

$$\frac{\text{Gap Width} \times \text{Depth} \times \text{Total Length}}{310} = \text{No. Cartridges}$$

Note: All measurements are in mm.

### Nullifire Limited

Torrington Avenue, Coventry CV4 9TJ, United Kingdom  
Telephone + 44 (0)24 7685 5000 Facsimile + 44 (0)24 7646 9547  
e-mail protect@nullifire.com website www.nullifire.com



This information is offered in good faith but without guarantee or liability. In cases of doubt, users should consult with relevant authority. Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Nullifire Ltd. As the supplier only, Nullifire Ltd has no control over the method or conditions of application of the product and consequently no warranties expressed or implied are intended to be given as to the coverage or performance of the products mentioned or referred to herein and no liability will be excepted for any loss, damage or physical injury resulting from the use or application of the information, data or products mentioned or referred to herein.

# Nullifire M703 - Silicone Sealant

May 2007 – UK - M703 - APP  
Revision 1

Page 3 of 3

## 6. STORAGE

---

To avoid deterioration, store M703 under cover between 0°C and 35°C. Minimum shelf life is 12 months under correct storage conditions.

## 7. TO ORDER

---

M703 is supplied in standard 310ml cartridges, which are packed in boxes of 12. In the U.K., M703 is stocked at Coventry. In other countries, M703 can be purchased through your nearest distributor, whose details can be obtained from Nullifire or from the Web site on <http://www.nullifire.com>.

## 8. TECHNICAL ASSISTANCE

---

Further assistance can be obtained by calling the Nullifire Technical Hotline or by e-mail – [protect@nullifire.com](mailto:protect@nullifire.com).

Contract Support is available on request.

Nullifire run a training school in the U.K. for applicators. Full information can be obtained from Nullifire.

## 9. HEALTH AND SAFETY

---

A separate Material Safety Data Sheet is available.

**Nullifire Limited**

Torrington Avenue, Coventry CV4 9TJ, United Kingdom

**Telephone** + 44 (0)24 7685 5000 **Facsimile** + 44 (0)24 7646 9547

**e-mail** [protect@nullifire.com](mailto:protect@nullifire.com) **website** [www.nullifire.com](http://www.nullifire.com)



This information is offered in good faith but without guarantee or liability. In cases of doubt, users should consult with relevant authority. Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Nullifire Ltd. As the supplier only, Nullifire Ltd has no control over the method or conditions of application of the product and consequently no warranties expressed or implied are intended to be given as to the coverage or performance of the products mentioned or referred to herein and no liability will be excepted for any loss, damage or physical injury resulting from the use or application of the information, data or products mentioned or referred to herein.