

**RCM (Roofing and Cladding Materials Ltd)**



**PRODUCT** RCM Nullifire FS703

**Date prepared:** 08 June 2021

**Version 1**

**ISO No.** 5164

**General Description**

FS703 is a low modulus, neutral cure, silicone sealant, suitable for linear gaps sealing in order to reinstate the fire performance in compartment walls & floors

**General Applications**

FS703 is suitable to fire seal joints in compartment walls and floors:  
 - Static linear joints (masonry to masonry/rigid wall/rigid floor/flexible wall)  
 - Window & door joints (masonry to timber/steel)

**Product Appearance**

White.  
 Grey & Black are available on request (may be subject to minimum order quantities).

**Key Benefits Summary**

Up to 4 hours fire resistance Tested to EN 1366-4  
 Tested in gaps up to 220 mm  
 Ideal for joints in flexible walls, rigid walls & floors, windows & door frames  
 Airtight up to 600 Pa  
 Superior elasticity  
 Excellent tooling properties  
 UV & weather resistant

**Packaging**

310 ml cartridges (12 per box)  
 600 ml sausages (12 per box)

**General Technical Properties**

	Unit	Value	Applicable
Air Permeability	Pa	Airtight up to 600	EN 1046
Maximum Allowable Deformation (MAD)	%	25	ISO 11600
Specific Gravity		-1.4	ISO 1183-1
Consistency	mm	0 mm, no sagging	ISO 7390 (20 mm)
Hardness Shore A		-24	ISO 868
Skin Formation Time	min	-20-35	23°C, 50% RH
Cure Rate	mm/day	-1-2	23°C, 50% RH
Modulus at 100% Elongation	mm <sup>2</sup>	-0.4 N	ISO 8339, 23°C
Tensile Strength	mm <sup>2</sup>	-0.5 N	ISO 8339, 23°C
Elongation at Break	%	-250	ISO 8339, 23°C
Elastic Recovery	%	-90	ISO 7389
Application Temperature	°C	+5 to +40	
Service Temperature	°C	-40 to +150	
Storage	°C	Store in shaded dry conditions between +5 and +25	
Shelf Life	months	12 when stored as recommended in original unopened containers	

**Preparation**

All surfaces must be clean and sound, free from dirt, grease and other contamination.  
 Wood, plaster and brick may be damp but not saturated or exposed to running water during cure.  
 Porous or metallic surfaces may require priming prior to application.  
 If a clean line is required on adjoining substrates, masking tape should be used.  
 Check specification is suitable for fire rating and gap size required.

**Coverage**

To determine quantity of sealant required, calculate as following example (in mm):

$$\frac{\text{Gap Width} \times \text{Depth} \times \text{Total Length}}{310} = \text{N}^\circ \text{ of cartridges}$$

For further guidance on application methods, and material requirements, please contact Benx Technical Services Department.

**Protective Equipment**

Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product.

## Limitations of Use

<b>Installation</b>	Insert required backing material, oversized to joint width to ensure stability, to provide correct depth of seal. A light water spray will aid adhesion if a rock mineral fibre backer has been applied. Using a suitable tool, cut nozzle of cartridge to bead size and angle required. Gun sealant into gap to required depth by applying an even pressure to the trigger. Work and tool to a smooth finish immediately with a wet profiling tool or spatula
<b>Tools</b>	Sealant caulking gun Sealant profiling tool/spatula Masking tape (if decorative finish is required to surrounding substrates)
<b>Maintenance</b>	No maintenance required after installation. Routine inspection recommended to ensure no damage to the system
<b>Cleaning</b>	Immediately remove any masking tape and all excess sealant. Cured sealant can only be removed mechanically if surface type permits.

## Health & Safety

see separate msds available at

[www.buildingboards.co.uk](http://www.buildingboards.co.uk)

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