## KEY BENEFITS SUMMARY

- Can acheive up to 5 hours joint fire resistance tested in accordance with BS EN 1366-4
- Ideal for sealing low movement joints (up to 20 %) - suitable for gaps up to 50 mm wide
- Provides a durable seal resistant to mould, fungus and vermin attack
- Safe to use: asbestos and halogen free
- Easily paintable

### **PRODUCT INFORMATION**

### Description

Nullifire M701 is a one-part fire resistant joint sealant based on an emulsion acrylic.

### **Usage / Purpose**

Nullifire M701 cures to give a firm, but flexible seal in low movement fire rated joints (up to 20 %).

The sealant is suitable for internal use in a variety of fire rated structures. Typical applications include joints in compartment walls and floors, providing a perimeter seal around partitioning and service penetrations, and bedding of fire door locks and hinges.

### SUBSTRATES

- Masonry to masonry
- Steel to steel
- Masonry to timber
- Masonry to steel
- Around pipes and services

## NOTE

For other substrates please contact Tremco illbruck Technical Services Department.

# Colours

White and grey

### Packaging

310 ml cartridges (12 per box) 600 ml sausages (12 per box) 830 ml cartridge (9 per box)

### Availability

Direct from Tremco illbruck (see back of leaflet for address and telephone details).

## **USAGE GUIDELINES**

### **Neccessary Tools**

Standard cartridge/skeleton gun; sharp knife; palette knife or spatula

### **Joint Design Considerations**

Refer to published test results for guidance on joint design.

### Preparation

- All surfaces must be clean and sound, free from dirt, grease and other contamination.
- Wood plaster and brick may be damp but not running wet.
- Use mechanical abrasion to clean porous surfaces if necessary before application.
- Check specification is suitable for movement, fire rating and gap size required.

## Priming

Priming is not required with most construction materials but very porous surfaces should be primed with illbruck WD110 PVA Adhesive.

## **Application**

 Insert backing material, oversized to joint width to ensure stability, to provide correct depth of seal (minimum 5 mm).

M701

- For single seal, use non-flammable backing (mineral fibre or ceramic fibre). For double seal: Use M710 Backing Rod.
- Using a sharp knife, 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.
- Tool to a smooth finish immediately with a wet palette knife or spatula.

### Coverage

To determine quantity of sealant required, calculate as follows:

Gap width x Depth x Total length = N° of cartridges

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

## Cleaning

Immediately remove all excess sealant adjacent to the joint (use masking tape where appropriate). Clean tools in hot water.

### Storage

Store in dry conditions between +5 °C and +27 °C. Do not allow to freeze.

## Shelf Life

12 months when stored in its original unopened containers.

### **Health & Safety Precautions**

Product Health and Safety Data Sheets must be read and understood before use.



## **TECHNICAL INFORMATION**

Property	Test Method	Result					
Composition		An intumescent acrylic mastic					
Fire Performance*							
Period of Fire Resistance	BS EN 1366-4 Up to 5 hours / BS476:Part 20	1, 2, 3, 4 & 5 hours integrity 1, 2, 3, 4 & 5 hours integrity & insulation					
Acoustic Rating	BS EN ISO 140-3:1995	up to 38 dB					
Air Permeability	BS EN ISO 1314-1:2004	Air tight up to 100 Pa					
Depth of Sealant Required	Gap width up to 50 mm	50 % of width (2:1 ratio)					
Properties (Typical Values)							
Solids Content		82 % to 85 %					
pH Value		8.8 to 10.0					
Flash Point		n/a					
Specific Gravity		1.5 to 1.6					
Viscosity		Thixootropic					
Tensile Strength		170 kN/m² (0.17 MPa)					
Touch Dry	at 20 °C	30 minutes					
Cure Through Time	at 20 °C - 20 mm depth	20 days					

\*NOTE: For installation ratings and gaps outside of this range please refer to Tremco illbruck Technical Services Department.

## **Technical Service**

Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

### **Guarantee / Warranty**

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco illbruck written instructions and (b) in any application recommended by Tremco illbruck, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.





### PERFORMANCE

FIRE PERFORMANCE: Tested in accordance with BSEN1366-4 Up to 5hrs ACOUSTIC PERFORMANCE: Tested in accordance with BSEN ISO 140-3:1995 AIR PERMEABILITY: Tested in accordance with EN 1026

Tested Gap Widths (mm)	Substrate	Integrity (Minutes)	Insulation (Minutes)	Orientation	Seal to Depth Ratio (span / depth)
Up to 29	Concrete- Concrete	300	180	Wall	2:1
30-50		300	300		
Up to 29	Concrete- Softwood	90	60		
30-49		90	90		
50		180	180		
Up to 49	Concrete- Hardwood	120	120		
50		180	180		
Up to 12	Concrete- Steel	300	60		
13-29		240	60		
50		300	120		
Up to 12	Concrete- Concrete	300	180	Floor	2:1
13-50		300	60		
Up to 50	Concrete- Steel	240	30		



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