

CI/SfB		(29)	(K2)
CAW	P10		
Uniclass	JP10:L68114		
June 2010			

M705

Intumescent Sealant

KEY BENEFITS SUMMARY

- Certified to the latest British and European standards BS EN 1366-3 and EN 13501-2:2007
- Provides an effective barrier to the spread of smoke and fire for up to 2 hours
- Excellent toolability and low slump characteristics. No special tools required.
- Suitable for a wide range of penetrating items and substrates
- Resistant to mould fungus and vermin attack

PRODUCT INFORMATION

Description

Nullifire M705 is a single part, graphite based, fire resistant intumescent sealant

Usage / Purpose

Nullifire M705 is designed to close off gaps and penetrations in compartment walls and floors, to provide up to 2 hours fire resistance. This product has been formulated to close off plastic pipe penetrations in the event of a fire, negating the need for pipe closers or wrap systems. Suitable for use on masonry floors and walls, drywall, and in conjunction with Nullifire B747 batts.

M705 is suitable for the following service penetrations up to 90 mm; PVC pipes, UPVC pipes, ABS pipes, PE pipes and PP pipes.

Typical areas of use include health and leisure facilities, schools, universities, commercial, retail and industrial buildings and transport.

Colour

Grey

Packaging

310 ml cartridges (12 per box)

Availability

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

USAGE GUIDELINES

Necessary Tools

Skeleton/sausage gun, palette knife and spatula.

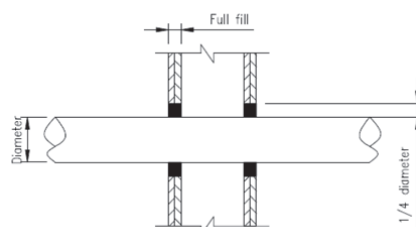
Preparation

- Ensure that the substrate and penetrating services are compatible with M705, and that site conditions are within specification. Check that sufficient annular space is available to allow correct installation.
- Clean all surfaces of loose particles, moisture, oils, grease and corrosive materials. We recommend that the surface or substrate temperature be 5°C or above at the time of application. Contact Technical Services for advice regarding lower temperature application.

Application

- To achieve the correct quantity of sealant required to effectively close the penetration in a fire scenario, an annular space of ¼ of the diameter must be filled with M705. The full depth of the partition facing material should be filled.

Example:
2 x 12.5 mm layers to be filled 25 mm either side of the substrate.



- Backing material is not required to achieve a correctly installed the seal. M705 can be easily built up to effectively fill the annular space with very little wastage or slump. A circular motion is recommended when installing the sealant to fill the required gap.
- Using a sharp knife, cut nozzle of cartridge or sausage 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.

NOTE: If M705 is exposed to elevated levels of moisture before fully cured, it is likely to be damaged. It is recommended that contact with moisture or condensation during the application and drying of M705 should be avoided.

Maintenance

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

Storage

Store between +5°C and +25°C in dry conditions. Keep away from sources of ignition.

Shelf Life

6 months when stored as recommended.

Health & Safety Precautions

Product Safety Data Sheet must be read and understood before use.

Technical Service

Nullifire 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 02476 855000.

M705

Nullifire - a brand of Tremco illbruck Coatings Ltd
Torrington Avenue
Coventry, West Midlands CV4 9TJ
Tel: 02476 855000
Fax: 02476 469547
Email: protect@nullifire.com
Website: www.nullifire.co.uk

TECHNICAL INFORMATION

Composition	An intumescent acrylic mastic
Solids Content	82 - 83%
Flash Point	n/a
Specific Gravity	1.5
VOC	17.5 g/litre
Activation Temperature	250 - 300°C
Viscosity	Thixotropic
Tensile Strength	0.6 MPa
Expansion Rate	14:1
Touch Dry (at 20°C)	25 minutes
Cure Through Time (at 20°C)	2 - 3 mm/day

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

Guarantee / Warranty

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. As the supplier only, Nullifire 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.

PERFORMANCE

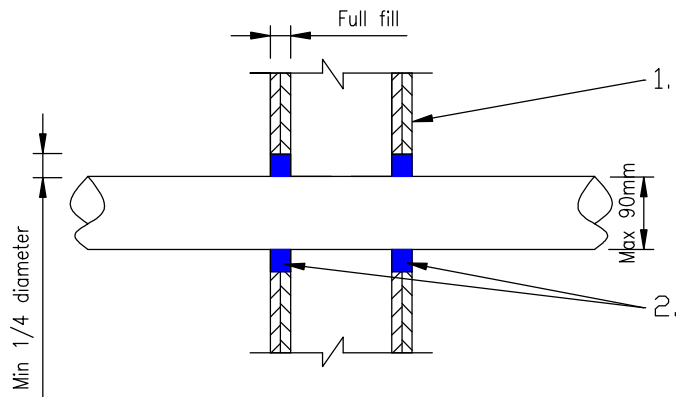
FIRE PERFORMANCE: Tested in accordance with BS EN 1366-4 up to 2 hours
ACOUSTIC PERFORMANCE: Tested in accordance with BS EN ISO 140-3:1995
AIR PERMEABILITY: Tested in accordance with EN 1026

Substrate	Pipe Material	Diameter	Integrity (minutes)	Insulation (minutes)
DRYWALL/ MASONRY	PVC	Up to 90 mm	120	120
	PP		120	120
	HDPE		120	120
	ABS		120	120

M705

Nullifire - a brand of Tremco illbruck Coatings Ltd
 Torrington Avenue
 Coventry, West Midlands CV4 9TJ
 Tel: 02476 855000
 Fax: 02476 469547
 Email: protect@nullifire.com
 Website: www.nullifire.co.uk

NULLIFIRE M705 TRUE INTUMESCENT MASTIC



© COPYRIGHT NULLIFIRE 2008

Nullifire Approvals

Fire:

PR EN 1366-3

Acoustics:

BS ISO 140-31995

1. FR Partition.
2. Nullifire M705 Acrylic Sealant. Installed to minimum width 1/4 the pipe size and full thickness of partition.

The application shown is not exhaustive. For further scope contact Nullifire Technical Services for advice or an Engineering Judgement.

Project

Date	2010 Rev 1	Scale	N/A
------	------------	-------	-----

DL/M705/1/100618

Drg No.

Nullifire[®]
 ENHANCING FIRE PROTECTION
 NULLIFIRE LIMITED
 Torrington Avenue, Coventry, England, CV4 9TJ
 Tel: +44 (0) 24 7685 5000
 Fax: +44 (0) 24 7646 9547

E+OE Please check you have the latest version.

Note:

Nullifire has provided this specification on the basis of the data and information given to Nullifire by the customer, the Nullifire product information and level of technical knowledge this specification relates to is expected to provide the level of fire performance, should the proposed detail be subjected to the standardised fire resistance performance against which the judgement has been made.

The accuracy of this specification relies on the following

1. Only Nullifire products as defined in the specification are used
2. The specific products are installed by a competent person, utilising Nullifire installation manual and data sheets
3. The proposed specification has been checked by the user.