

FS702

Intumastic Fire Resistant Acrylic Sealant

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Description

FS702 Intumastic is a water-based acrylic sealant which cures to give a fire seal, for both linear joints & service penetrations.



Features and Benefits

- Up to 4 hours fire resistance - Tested to EN 1366-4 and EN 1366-3
- Up to 30% movement capability (during fire test)
- Suitable for flexible walls and rigid walls & floors
- Used for sealing FB750 Intubatt
- Acoustic & smoke sealing
- Air pressure tested up to 2000 Pa
- Optifire® and Optifire®+ traceability identifiers

Usage Purpose

FS702 Intumastic is suited for use around non-combustible services, cables, rock fibre insulated non-combustible pipes, using a minimum depth of 25mm.

FS702 is suitable for use in various construction joints offering up to 30% movement capability.

FS702 is suitable for a variety of applications:

- Static & movement linear joints (masonry/flexible wall to masonry/rigid wall/rigid floor/flexible wall)
- FB750 to flexible wall/rigid wall/rigid floor
- Cold smoke seal
- Service penetrations: copper & steel pipes, cable bundles / trays / ladders (with and without FI025 Intuflex Insulation Wrap)
- FS702 is also suitable for service movement joints
- FS702 can also be used for the bonding and pointing of joints and service penetrations in conjunction with FB750 Intubatt system.

Typical areas of use include: health and leisure facilities, schools, universities, modular construction, commercial buildings, hospitals, retail and industrial units, train stations, nuclear power plants, etc...

Packaging

Gun Grade:

- 310 ml cartridges (12 per box / 25 per box)
- 400 ml sausages (15 per box)
- 600 ml sausages (12 per box)

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Trowel Grade: 5 litre bucket

Available Colour

White

Grey is available on request (may be subject to minimum order quantities)

Traceability & Product Identification

Nullifire's identification technologies offer architects, specifiers, main contractors and applicators traceability of product on-site. Our traceability technologies are not visible to the naked eye, and do not affect performance or product aesthetics.

FS702 features Optifire technology; UV technology activated by exposing the products surface to a UV light source, which offers product identification (white colour only).

FS702 also features Optifire+, a pigment technology, visible only with a specific Nullifire detector ; Optifire+ offers identification and remains traceable even after a fire.

Storage

Store in dry conditions between +5°C and +40°C. Product may be left for short periods (not exceeding 72 hours) at temperatures as low as -5°C. Allow product to defrost for 24 hours at +10°C before use.

Certificates & Approvals

ETA 20/1315 (Linear Joints)

ETA 21/0010 (Penetrations)

CE 2531-CPR-CX010109

UKTA 0843-UKTA-22/0064 (Linear Joints)

UKTA 0843-UKTA-22/0062 (Penetrations)

UKCA 0843-CPR-1253

UL-EU-01059-CPR (Linear Joints)

UL-EU-01062-CPR (Penetrations)

Technical Data Sheet

FS702

Intumastic Fire Resistant Acrylic Sealant

Technical Characteristics

Viscosity		Thixotropic
Composition		Water-based acrylic sealant
Acoustic Rating	EN ISO 10140:2-2010	Up to 59 dB
Cure Rate	+23 °C / 50 % RH	~ 1 mm/day
Specific Gravity	ISO 1183-1	~ 1.50 - 1.56
Reaction To Fire	EN 13501-1	Euroclass E
Durability	EN 13162, EN 14303, EN ISO 1519	Type Z1: intended for use at internal conditions with high humidity, excluding temperatures below 0°C, rain and UV (also covers type Z2)
Skin Formation Time	+23 °C / 50 % RH	~ 30 min
Solids Content		~ 78 - 82%
Air Permeability	EN ISO 1023:2	Air pressure tested up to 2000 Pa
Application Temperature		+5°C to +60°C
Shore A Hardness	ISO 868	~ 30
Service Temperature		-25°C to +70°C
Environmental Performance		EPD (Generic Acrylic Sealant EPD from FEICA) M3
Storage		Store in dry shaded conditions between +5°C and +40°C. Product may be left for short periods (not exceeding 72 hours) at temperatures as low as -5°C. Allow product to defrost for 24 hours at +10°C before use.
Shelf Life		36 months when stored as recommended in original unopened containers.
Cleaning		Immediately remove all excess sealant and masking tape before cure. Clean tools in warm water. Cured sealant can only be removed mechanically.

Usage Guidelines

Always read SDS, pre-application guidance and relevant application detail prior to application. Ensure the latest documents are downloaded prior to every project commencement.

Substrate 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.

Necessary Tools

Sealant caulking gun

Sealant profiling tool/spatula

Masking tape (only if a decorative edge is required)

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Preparation

Check specification is suitable for movement, fire rating and gap size required.

Ensure all services passing through the compartment penetration are suitable for use with FS702 and have been installed to the satisfaction of all relevant parties (we recommend checking TDS's as supplied by the manufacturer of the service for all other considerations).

Identify all services types and ensure you have the required suitable Nullifire ancillary products available (e.g. FB750 Intubatt).

If decorative finish is required to surrounding substrates, please use a masking tape.

Application

Insert required backing material (refer to performance on backing materials), 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 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.

Work and tool to a smooth finish immediately with a wet profiling tool or spatula.

Coverage

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

$$(\text{Gap Width} \times \text{Depth} \times \text{Total Length}) / \text{product volume} = \text{N}^{\circ} \text{ of units}$$

Tool Cleaning

Immediately remove all excess sealant and masking tape before cure. Clean tools in warm water. Cured sealant can only be removed mechanically.

Protective Equipment

Ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Please Note

Do not use around CPVC pipes ; for this specific application, please use FS719 HP Blue for CPVC.

If used around Pegler X-Press Carbon Steel pipes, the pipe manufacturer should be consulted, and their recommendations followed.

FS702**Intumastic Fire Resistant Acrylic Sealant****Maintenance**

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

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, 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 CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

It is a requirement of the installer to ensure suitability and compatibility of all elements before installation commences and that compliance can be achieved as required.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited 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

Certification