

FS709

HP Intumescent Sealant

09-04-2025 / V 1

Description

FS709 HP is a high expansion graphite intumescent sealant containing Optifire+ unique traceability identifier. Used as a closer device or as a standard fire seal, it rapidly expands when exposed to fire.



Features and Benefits

- Up to 4 hours fire resistance - Tested to EN 1366-3 and EN 1366-4
- "Collar in a tube" : versatile & easy to apply
- Can be used direct, or within FB750 Intubatt, FP170 Intucollar, FB770 Intudeck, or FR230 Intucompound
- Tested on many substrate types
- Tested in openings up to 600 x 600 mm
- Tested for use in linear gaps up to 25mm
- Optifire®+ unique traceability identifier

Usage Purpose

FS709 HP has been tested to close off many combustible elements in the event of a fire, offering greater versatility than collar, strap or sleeve systems.

FS709 is designed to reinstate the fire performance of compartment walls and floors which have been breached by services.

FS709 is suitable for use within flexible walls & rigid walls (75mm or wider), rigid floors (100mm or wider), CLT walls and floors, and also within FB750 Intubatt / FR230 Intucompound, and FB770 Intudeck.

FS709 has been tested with the following service penetrations:

- combustible pipes (ABS, PE, PP, HDPE, PVC, PB, iMist, PEX, MLCP...)
- insulated non-combustible pipes
- pipe insulation types: nitrile rubber, glass fibre, PIR, phenolic, cotton, rock fibre
- individual or groups of cables, perforated & non-perforated cable trays, cable ladders, cable baskets, cable bundles, trunking, gaps between busbars, etc...

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

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

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Available Colour

Anthracite

Traceability & Product Identification

Nullifire is bringing unique identification technologies to the market by offering architects, specifiers, main contractors, and applicators guaranteed traceability of product on-site. Our traceability technologies are not visible to the naked eye and do not affect performance or product aesthetics.

FS709 features Optifire+, a unique pigment technology, visible only with a specific Nullifire detector; Optifire+ offers lifetime identification, and remains traceable even after a fire.

Storage

Store in shaded dry conditions between +5°C and +35°C.

Certificates & Approvals

ETA 20/1314
CE 2531-CPR-CXO101010
UKTA 0843-UKTA-22/0065
UKCA 0843-CPR-1255
UL-EU-01061-CPR

Technical Characteristics

Viscosity	Thixotropic	
Composition	Water-based graphite	
Acoustic Rating	EN ISO 10140:2-2010	Up to 62 dB
Cure Rate	+23 °C / 50 % RH	~ 1 mm/day
Specific Gravity	ISO 1183-1	~ 1.3
Reaction To Fire	EN 13501-1	Euroclass E

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Technical Characteristics

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)
Ph		~ 8.5 - 9.5
Skin Formation Time	+23 °C / 50 % RH	~ 60 min
Application Temperature		+5°C to +60°C
Shore A Hardness	ISO 868	~ 77
Service Temperature		-25°C to +70°C
Environmental Performance		EPD (Generic Acrylic Sealant EPD from FEICA) M1
Intumescent Expansion Ratio		80 times volume expansion
Storage		Store in dry shaded conditions between +5°C and +35°C.
Shelf Life		18 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.

Substrate Preparation

All surfaces must be clean and sound, free from dirt, grease and other contamination.

Necessary Tools

Sealant caulking gun
Sealant profiling tool/spatula
Masking tape (only if a decorative edge is required)

Protective Equipment

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

Preparation

Ensure all services passing through the compartment penetration are suitable for use with FS709 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.

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Application

Refer to ETA n°20/1314, to determine any requirement for an additional Nullifire product.

Insert backing material if required (refer to tested product classification) to ensure correct depth of seal.

Using a suitable tool, cut nozzle of cartridge to bead size and angle required, and load cartridge/sausage into sealant gun.

Gun sealant into gap to required depth and width.

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

Tool Cleaning

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

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.

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 Data Sheet

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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

