Technical Data Sheet

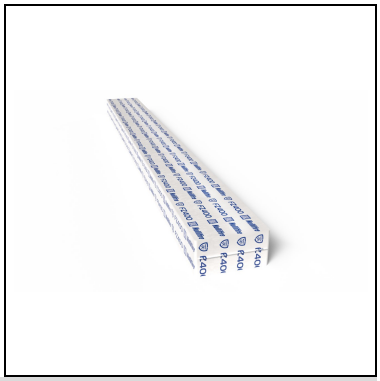
FZ400

Movement Joint Filler

24-09-2026 / V 8

Description

FZ400 Movement Joint Filler is a fire protection solution, tested for use in linear joints (both vertical and horizontal) and as a method to provide penetration seal movement around and at the head of Nullifire FB750 Intubatt. It is also tested to be used as cable trunking infill. Nullifire's patented GXT (Graphite eXpansion Technology) has been incorporated within Nullifire FZ400.



Features and Benefits

- Up to 2 hours fire resistance - Tested to EN 1366-3 and 4
- Patented GXT technology
- For use in areas with movement requirements
- Dry fit and compressable
- Creates a seal that permits service movement
- Tested with mixed services: suits vertical & horizontal wall joints, floor seals, and head of wall movement scenarios
- Tested as a linear gap joint - superseding FJ400
- Tested in various applications this includes trunking infill

Usage Purpose

FZ400 is tested and suitable to be installed around, and to the head of, FB750 Intubatt service penetration seals. The product will allow and absorb any deflection, differential and service movement up to ±30mm (tested) and up to ±60mm (theoretically). FZ400 has been cyclic tested and subsequently fire tested with the inclusion of service penetrations.

FZ400 may be used to reinstate the performance of fire compartment lines, both walls and floors, where construction joints require a physical movement seal and a specific fire rating.

FZ400 has been tested in linear joints up to 115mm gap width in walls / 150mm gap width in floors.

FZ400 has 60% demonstratable compression capability (compress and return). It is tolerant of movement and is used in areas where standard mastic joints are not suitable. FZ400 offers a solution for areas subject to regular cycles of expansion and contraction or vibration, in compression, where reliability is vital.
FZ400 is also designed to provide a permanent fire barrier within trunking boxes passing through fire compartment walls. It has been tested within flexible walls.

Areas Of Application

FZ400 is ideally suited to all areas with dynamic live load environment such as airports, train stations, hospitals and high rised buildings. It may also be suitable for buildings being designed for earthquake zones or military buildings designed to withstand ground movement shockwaves.
FZ400 Trunking Infill is for use where there are regular changes in cabling requiring frequent removal and replacement, for

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example in computer or communication installations.

Packaging

FZ400 strips are available in different dimensions depending on the application as per below table 'Product dimensions & suitability'.
Packed in a box individually or as per dimensions required.
Do not remove from film sleeve.

Available Colour

White/Blue

Product dimensions & suitability

Product Code	Product dimensions (Length x Width x Thickness)	Max linear joint width	Service movement framework system
FZ400511873	1000X30X30MM (two pieces required)	25mm	
FZ400511874	1000X55X50MM	50mm	x For Trunking infill
FZ400511875	1000X80X50MM	75mm	x
FZ400511918	1000X100X50MM (framework system only)		x For Trunking infill
FZ400511876	1000X120X80MM	115mm	x
FZ400512002	1000X155X80MM (floor only)	150mm	x

Technical Characteristics

Composition		Graphite impregnated polyurethane foam in a water resistant sleeve
Density		127 kg/m³ (±20)
Durability	EN 13162, EN 14303, EN ISO 1519	Type X: intended for use at conditions exposed to weathering (also covers types Y1, Y2, Z1, Z2) without water resistant sleeve
Thermal Conductivity	EN 6946	0.08 W/(m.K) without water resistant sleeve
Service Temperature		-40°C to +90°C
Storage		Store in dry shaded conditions between -10°C and +70°C.
Shelf Life		Unlimited when stored as recommended.

Usage Guidelines

Always read SDS, available reports and relevant application details prior to application. Ensure the latest documents are downloaded prior to every project commencement.

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Substrate Preparation

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

Necessary Tools

Tape measure
Suitable cutting equipment (insulation material knife, cutting knife, etc.)
Duct or foil tape (e.g. illbruck ME315)

Application

Measure opening ensuring that gaps to be filled are the correct specified size and relatively consistent width. FZ400 should have 10mm compression at every joint (e.g. 1000mm of product will fill 990mm of linear gap length).

Ensure fire resistance of FZ400 corresponds or exceeds the requirements of the fire strategy or fire compartment.

Check for obstructions to the gap such as ties between steel and masonry and loose mortar. FZ400 may have to be cut around and compressed against unavoidable obstructions such as wall ties or guidance rods (this situation is tested).

Starting from one end, compress FZ400 (using only hand pressure) and insert suitably into required location. Consult Performance Data table to ensure correct location requirement is achieved.
Repeat above process moving along the linear seal, ensuring mating butt joints between lenghts of FZ400, until compartment seal is completed.

It is not necessary to use adhesive to retain FZ400.

If the FZ400 sleeve is cut, the open end should be resealed using a suitable adhesive tape, such as illbruck ME315.

Finally inspect the finished work to ensure compliance with instructions.

Application details on the creation of the service movement framework system that permits service movement can be found in the separate document 'Nullifire FZ400 Application Instructions'.

FZ400 Trunking infill:
Level cables to bottom of trunking box.
FZ400 strip can be cut to 333mm lengths.
Insert FZ400 within the trunking box above cables until height of lid is reached or slightly exceeded. Ensure FZ400 is within the compartment line, either centrally if conditions allow, or a minimum 25mm insertion into the compartment line is acceptable if access prevents a central location being achieved (tested in a non-symmetrical configuration to evidence the above statement).
Replace the lid.

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Tool Cleaning

Use illbruck AA290 to clean the cutting equipment.

Protective Equipment

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

Limitation

The achievable fire resistance duration and installation situations are provided in a separate downloadable document. Do not remove from packaging

Maintenance

No maintenance required after installation. Routine inspection recommended to ensure no damage to the system.
Inspection of electrical systems should be carried out by a qualified individual.

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.

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.

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Certification

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