

FS704

Fire Resistant Hybrid Sealant

21-03-2025 / V 1

Description

FS704 is Fire Resistant Hybrid Sealant sealant, free from isocyanates, silicone and phthalates. It has great application properties, designed to fire seal linear gaps on various substrates.



Features and Benefits

- Up to 2 hours fire resistance - Tested to EN 1366-4:2021
- Phthalate free, isocyanate free, silicone free
- Up to 25% demonstratable movement in cold state - Tested to ISO 11600
- Suitable for flexible walls and rigid walls & floors
- Creates a smoke seal
- Acoustically capable up to 66 dB
- Air Pressure tested up to 600 Pa

Usage Purpose

FS704 is suitable to fire seal joints in compartment walls and floors, and reinstate the fire performance of below substrates :

Concrete - Timber
Concrete - Concrete
Steel - Steel
Steel - Concrete
Drywall - Drywall
Drywall - Concrete
Drywall - Steel
Timber - Timber

Available Colour

White
Grey

Certificates & Approvals

Classification Report : RS23-005
European Technical Assessment : ETA 23/0536
CE Certificate : 0679-CPR-1394

Technical Data Sheet

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Fire Resistant Hybrid Sealant

Technical Characteristics

Viscosity		Thixotropic
Composition		Hybrid sealant
Acoustic Rating	EN ISO 10140:2-2010	Up to 66 dB
Cure Rate	+20°C and 50% RH	~ 2,8 mm/day
Specific Gravity	DIN 52451-A	~ 1.5
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)
Skin Formation Time	Internal test at 23 °C / 50 % RH	~ 45 min
Air Permeability	EN ISO 1023:2	Air pressure tested up to 600 Pa
Maximum Allowable Deformation (MAD)	ISO 11600	25%
Application Temperature		+5°C to +40°C
Elongation At Break	DIN 53504 S2	~ 500%
Tensile Strength	EN ISO 8339, method B, at 100% DIN 53504 S2, at 100% DIN 53504 S2, at break	~ 0.3 N/mm ² ~ 0.6 N/mm ² ~ 1.3 N/mm ²
Elastic Recovery	EN ISO 7389, method A	~ 80%
Shore A Hardness	ISO 868	~ 20
Movement Capability	ISO 9047 ISO 11600	25% 25LM
Service Temperature		-40°C to +90°C
Environmental Performance		EPD (Generic Hybrid Sealant EPD from FEICA) M1
Storage		Store in dry shaded conditions between +5°C and +25°C.
Shelf Life		12 months when stored as recommended in original unopened containers.

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 fire rating and gap size required.

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

Application

Insert required backing material (see performance table on backing materials), oversized to joint width to ensure stability, to provide correct depth of seal.

Suitable cutting tool to open cartridge and prepare nozzle for required bead size.

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):

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

Tool Cleaning

Immediately remove all excess sealant and masking tape before cure. 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

The movement capability (EN 15651-1) is 25 % in normal usage of the building.

Do not use around CPVC pipes.

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

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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

