



Product Technical Data Sheet:

**TDSCFSC**

**PFC Corofil Firestop  
Compound CFSC**

3<sup>rd</sup> Party certification IFCC1669



**SERVICE  
PENETRATIONS**



## Technical Description of Product



PFC Corofil Firestop Compound is a gypsum based mortar containing perlite and fibres which is mixed with water and either poured or trowelled into a prepared aperture around service penetrations.

Tested to BS476 part 20 for floor openings with no penetrations and floor openings with steel pipes. Tested to EN1366-3:2009 for floor openings containing various cables installed in cable ladders and cable trays.

## Intended Use

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PFC Corofil Firestop Compound is designed and tested for use to reinstate the fire resistance performance around service penetrations in large floor openings. Shutter the opening with PFC Corofil Coated Panel friction fitted around the services, the PFC Corofil Firestop Compound is trowelled over the shuttering and around the services into the aperture to a thickness of 25 mm, once cured, the compound is poured into the opening to top up and finish flush with the upper surface of the floor.

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

## Key Points

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- Provides up to 360 minutes integrity and insulation fire resistance performance with no penetrations.
- Apertures up to 1200mm x 600mm.
- Can be used to blank off floor openings up to 1000mm x 500mm.
- Suitable for use around cable ladders and cable trays.
- Suitable for use with steel pipes up to 115mm.

**Please see Performance Data tables for exact specification for each service penetration**

## Installation Instructions



- Ensure the surfaces to be sealed are clean, dry and free from loose particles.
- The ambient temperature should be above 5°C at time of application.
- Ensure that the aperture and any service penetrations have been tested for use with PFC Corofil Firestop Compound.
- The compound may only be penetrated by the services mentioned in this data sheet; other parts or support constructions must not penetrate the seal.
- The service support construction must be fixed to the building element containing the penetration seal, or a suitable adjacent building element, in such a manner that in case of fire, no additional load is placed on the seal. Furthermore, it is assumed that the unexposed face support is maintained for the required period of fire resistance.
- Friction fit PFC Corofil Coated Panel 50mm shuttering into the opening, ensuring a tight fit around the penetrations. The shuttering should be set low enough in the floor to allow for a total minimum depth of 100mm for PFC Corofil Firestop Compound.
- Mix PFC Corofil Firestop Compound 1 part water to 2 parts powder and trowel on to the Coated Panel around the penetrations to a depth of 25mm. Once this has cured, pour the compound to top up the opening to finish flush with the surface of the floor ensuring it is a minimum 100mm deep.
- Once the Compound has fully cured the shuttering can be removed.
- When using PFC Corofil Firestop Compound to blank off floor openings with no service penetrations, install 12mm reinforcing bars inserted 25mm into the slab at each end. Width ways 54mm below the surface of the slab, length ways 42mm below the surface of the slab.

## Installation Instructions



### Substrates

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- Rigid floors: Minimum 150mm thick and comprised of concrete, aerated concrete or masonry, with a minimum density of 650kg/m<sup>3</sup>.
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*The supporting construction must be classified in accordance with EN13501-2 for the required fire resistance period.*

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### Terminology

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**Fire resistance classes:**

E = Integrity. The length of time it takes for the fire to pass to the non fire side.

I = Insulation. The length of time it takes for the heat of the fire to pass to the non fire side.

**Test Condition:**

U/U = Uncapped in the furnace/Uncapped outside the furnace  
U/C = Uncapped in the furnace/Capped outside the furnace  
C/U = Capped inside the furnace/Uncapped outside the furnace

Performance Data



Floors

Rigid floor

PFC Corofil Firestop Compound installed in 200mm dense concrete rigid floor; Tested to BS476 Part 20.		
Penetration	Aperture Dimension (mm)	Integrity/Insulation
None	1000 x 500 (with 12mm reinforcing bar)	360/360

PFC Corofil Firestop Compound installed in 200mm dense concrete rigid floor; Tested to BS476 Part 20.		
Penetration	Aperture Dimension (mm)	Integrity/Insulation
115mm ø x 5.0mm wall thickness Steel Pipe	600 x 250	360/30
25mm ø x 1.5mm wall thickness Steel Pipe		360/90
64mm ø x 4.0mm wall thickness Steel Pipe		360/30
40mm ø x 2.5mm wall thickness Steel Pipe		360/60

PFC Corofil Firestop Compound installed in 150mm lightweight aerated concrete rigid floor; Tested to EN1366-3:2009.		
Penetration	Aperture Dimension (mm)	Integrity/Insulation
Cable ladder 300mm wide x 1.25mm thick containing 1 x type D1 cable 1 x type D2 cable 2 x type E cable	1200 x 600	240/180 240/45 240/120 240/120
Cable ladder 200mm wide x 1.0mm thick containing 1 x type D3		240/240 90/60
Perforated steel cable tray 500mm wide x 1.5mm thick containing 10 type A1 cable 10 type A2 cable 10 type A3 cable 2 type B cable 1 type C1 cable 1 type C2 cable 1 type C3 cable		240/120 240/180 240/120 240/180 240/90 240/60 240/90 240/90
Non-perforated steel cable tray 500mm wide x 1.5mm thick containing 1 x type G1 cable 1 x type G2 cable Type F cable bundle		240/240 240/240 240/120 180/60



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