



Product Technical Data Sheet:

**TDSCFRS**

**PFC Corofil Fire Resistant  
Silicone**

ETA: 21/0910



**LINEAR GAP  
SEALS**



## Technical Description of Product



PFC Corofil Fire Resistant Silicone (CFRS) is a silicone based sealant used to form linear gap seals where gaps are present in floor and wall constructions and linear joint seals where wall and floor constructions abut.

PFC Corofil Fire Resistant Silicone (CFRS) is supplied in liquid form contained within 310ml cartridges. PE backing rod (RtF class F) or stone wool is utilised as a sacrificial depth gauge.

### Intended Use

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PFC Corofil Fire Resistant Silicone (CFRS) is used to reinstate the fire resistance performance of gaps in and joints between joints in rigid floor constructions.

The specific elements of construction that PFC Corofil Fire Resistant Silicone may be used with is listed under substrates on page 4 of this data sheet.

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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- Conditioned to type X: Intended for use in conditions exposed to weathering.
- Tested in accordance with EOTA Technical Report - TR024 – Edition November 2006, for the type X use category specified in EAD 351141-00-1106 Linear Joint and Gap Seals.
- PFC Corofil Fire Resistant Silicone (CFRS) has an assumed working life of 25 years, provided there are appropriate installation and use conditions. These are detailed in this technical data sheet and the safety data sheet.
- The indications given on the working life cannot be interpreted as a guarantee given by PFC Corofil, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

## Technical Data

## Specification

Description	Result	Test Standard
Packaging	310ml cartridge	
Colour	White	
Application	Linear Gap Seal	EN1366-4: +A1:2010 EN13501-2
Movement capability	≤7.5%	EN1366-4: +A1:2010
Maximum permitted gap size	60mm	EN1366-4: +A1:2010
Shelf life	12 months if stored in accordance with storage conditions	
Limitations	Not to be used where joints are to be constantly immersed in water. Do not use on substrates that are likely to release solvents, oils or plasticizers	

## Installation Instructions

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- Ensure the surfaces to be sealed are clean, dry and free from loose particles which may affect the adhesion of the sealant to the substrate.
- The ambient temperature should be above 5°C at time of application.
- Ensure that the linear gap size and substrates have been tested for use with PFC Corofil Fire Resistant Silicone CFRS
- Install any backing rod as required.
- Apply the sealant to the linear gap/joint, to the required width and depth for the application as described in the tables from page 5 below.
- Once applied, smooth off the sealant.
- PFC Corofil Fire Resistant Silicone CFRS may be used for sealing linear gaps and joints in specific supporting constructions and substrates as listed under Substrates below.
- The maximum permitted gap/joint width is 60mm.
- Provisions shall be taken to ensure that floor seals cannot be stepped on e.g. by covering with wire mesh or floor finishes.

## Substrates

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- The specific elements of construction that the PFC Corofil Fire Resistant Silicone (CFRS) may be used to provide a gap or joint seal in, are as follows:
- Rigid Floors: Minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>.
- Rigid walls: Minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>. (please see tables on page 5 for the correct wall thicknesses).

## Terminology

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.

Performance Data



Walls Minimum thickness 150mm Rigid Wall

PFC Corofil Fire Resistant Silicone CFRS in minimum 150mm thick rigid wall construction					
Substrate	Sealant depth mm	Joint width mm	Joint orientation	Backing rod	Classification
Masonry to Masonry both faces	5 both faces	00-60	Vertical	CLGS 50mm deep to both faces	EI240
Masonry to Masonry both faces	25mm both faces	00-50	Vertical	PE to both faces	EI240
Masonry to 8mm Steel both faces	5 both faces	00-60	Vertical	CLGS 50mm deep to both faces	E240 EI60
Masonry to softwood both faces	5 both faces	00-60	Vertical	CLGS 50mm deep to both faces	EI180
Masonry to Hardwood both faces	5 both faces	00-60	Vertical	CLGS 50mm deep to both faces	EI180

Walls minimum thickness 100mm Rigid Wall

PFC Corofil Fire Resistant Silicone CFRS in minimum 100mm thick rigid wall construction					
Substrate	Sealant depth mm	Joint width mm	Joint orientation	Backing rod	Classification
Masonry to Plasterboard both faces	20 both faces	00-25	Vertical	CLGS full depth less sealant depth minimum 60mm	EI120

**Floor Minimum thickness 150mm Rigid Floor**

PFC Corofil Fire Resistant Silicone CFRS in minimum 150mm thick rigid floor construction					
Substrate	Sealant depth mm	Joint width mm	Joint orientation	Backing rod	Classification
Masonry to 8mm Steel unexposed face	5	00-60	Horizontal	CLGS 50mm deep	E240 EI30
Masonry to 8mm Steel exposed face	5	00-50	Horizontal	CLGS 50mm deep	E240 EI60
Masonry to Masonry unexposed face	5	00-60	Horizontal	CLGS 50mm deep	E240 EI60
Masonry to Masonry exposed face	5	00-60	Horizontal	CLGS 50mm deep	E240 EI60
Masonry to Masonry exposed face	6	00-12	Horizontal	PE	E240 EI120
Masonry to Masonry exposed face	30	00-60	Horizontal	PE	E240 EI90



Doc Reference		TDSCFRS	
Revision 1.1			
PB: SE	CB: CI	AB	
This Copy		Review Date	
19/10/2023		23/03/2027	

King Georges Trading Estate | Davis Road | Chessington | KT9 1TT  
T. +44 (0) 208 391 0533  
E. sales@pfc-corofil.com | tech@pfc-corofil.com | W. pfc-corofil.com



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