

PROTECTA® FR ASF

TECHNICAL DATA SHEET



General Product Description

Protecta® FR ASF is designed to prevent the spread of fire, smoke and gases through openings in fire rated walls and floors, specifically linear joints and openings for building service penetrations.

Protecta® FR ASF should be applied over suitable backing materials to ensure correct width to depth ratio and to reduce shrinkage of the joint during hardening. In areas with a high degree of humidity and/or in joints with excessive movement, use Protecta® FR IPT.

Protecta® FR ASF is a 4 hour rated intumescent sealant formulated with fillers that provide noise reduction.

Protecta® FR ASF cures when it is subjected to atmospheric conditions, however it will retain a small degree of elasticity for joint movement. Under fire exposure, Protecta® FR ASF creates a robust fire seal by the formation of a durable intumescent char.

The sealant has undergone tests to BS EN 1366-3 with additional guidelines from BS EN 1366-4 for fire protection joints and testing in accordance with BS EN ISO 140-3:1995 for acoustic performance.

Properties

- Fire rated in both horizontal & vertical joints
- No priming required for most construction substrates
- Joint movement capability of 7.5%
- For use in joints up to 50 mm wide
- Excellent slump resistance
- 18 months shelf life
- Fast cure - tack free within an hour
- Easy to apply and tool off
- Halogen free
- Paintable
- Excellent adhesion to most common building substrates
- Reduces sound transmission in joints

Sound Insulation

Description	Sound reduction
Double sided seal ≥ 12.5mm depth	Rw 40 dB

Protecta® FR ASF has been tested at Sound Research Laboratories Limited according to BS EN ISO 140-3:1995. A 20mm diameter polyethylene joint backer rod or similar is required.



Emission data (indoor air quality)

Compound	Emission rate after 3 days	Emission rate after 4 weeks
TVOC	14 µg/m³	< 5 µg/m³
TSVOC	< 5 µg/m³	< 5 µg/m³
VOC w/o NIK	7.4 µg/m³	< 5 µg/m³
R Value	0.0091	0
Formaldehyde	< 3 µg/m³	< 3 µg/m³
Acetaldehyde	< 3 µg/m³	< 3 µg/m³
Sum for+ace	< 5 µg/m³	n.d.
Carcinogenic	< 1 µg/m³	< 1 µg/m³
n.d. or < means not detected		

Protecta® FR ASF complies with the requirements of GEV and the results correspond to the EMICODE emission class EC 1^{PLUS} which is the best possible environmental and indoor hygiene health protection mark. Tested by Eurofins Product Testing, report number 392-2015-00037301B.

Technical Data

Form	Ready to use thixotropic paste
Specific gravity	1.60 – 1.64
Flash point	None
Reaction to fire	Class F (not tested)
Tack free	Max. 60 minutes
Skin forming	Max. 20 minutes
Flexibility	7.5% according to ISO 11600
Durability/service	Class Z ₂
Storage	18 months stored in unopened cartridges. To be stored in temperatures between 10C and 30C
Working life	25 years
Compatibility	Suitable for use with most materials, but should not be used in direct contact with bituminous materials
Limitations	Should not be used in permanently damp areas or in joints with movement
Classification	CE-marked - Sealant for fire rated joints and penetrations class EI 120
Standard colours	White
Packaging	Box containing 25 cartridges each 310 ml Box containing 12 foil packed each 600 ml Pallets 310 ml: 64 boxes per pallet equals 1600 pcs Pallets 600 ml: 91 boxes per pallet equals 1092 pcs

Resistance to Fire – Linear Seals

Construction	Seal position	Minimum seal depth	Backing material	Maximum seal width	Fire resistance
Drywalls, masonry, aerated concrete or concrete walls (≥ 100 mm thick)	Both sides in horizontal seals	20.0 mm	None necessary	30 mm	EI 120 (E 120)
	Both sides in vertical seals	9.0 mm	Mineral stone wool minimum 20mm deep	30 mm	EI 90 (E 90)
Drywalls, masonry, aerated concrete or concrete walls (≥ 130 mm thick)	Both sides in vertical seals	15.0 mm	None necessary	30 mm	EI 90 (E 120)
		15.0 mm	Mineral stone wool minimum 15mm deep	30 mm	EI 120 (E 120)
		30.0 mm	None necessary	30 mm	EI 120 (E 120)
Rigid floors comprise aerated concrete or concrete within floors or between floors and walls (≥ 150 mm thick)	Single sided top face	25.0 mm	Mineral stone wool minimum 25mm deep	100 mm	EI 120 (E 120)