

CI/SfB	(29)	Yt4	(k2)
CAW P10			
Uniclass JP10:L68114			

Product Information

Description

FF197 is a modified, single component, fire rated polyurethane foam.

Usage / Purpose

FF197 is used to seal door frames, window frames and linear gaps throughout the fire rated areas of a building.

LIMITATIONS

As with all PU foams, FF197 will not adhere to Teflon, polyethylene or silicone coated surfaces. The cured foam is adversely affected by UV light and should be covered with a suitable sealant such as FS703 silicone or FS702 acrylic.

Colour

Pink

Packaging

750 ml pressurised canister (12 per box)

Availability

Direct from tremco illbruck (see back of leaflet for address and telephone details).

Usage Guidelines

Protective Equipment

USE IN WELL VENTILATED CONDITIONS and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Necessary Tools

Cutting knife, tape for masking of adjacent areas, brush to remove all loose particles. illbruck PU solvent cleaner to clear gun after use. Unstable areas may need to be clamped or secured during curing.

Preparation

- Ensure suitability of product prior to use.
- Protect floor coverings with tremco illbruck self-adhesive floor protection
- The surfaces must be solid and stable.
- Remove all loose particles, dust and grease.
- A speedier cure can be attained by moistening the substrates if needed.

Application

- Shake the canister vigorously at least 20 times. Remove the protective cap and screw onto the Nullifire PU foam gun or use the nozzle provided.
- Invert can and direct nozzle into gap and press gently on the adaptor to establish the correct flow rate.
- Fill approximately 80% of the required depth of the cavity because the foam will expand.
- Work upwards on all vertical surfaces.
- The foam is firmly set in approximately 1 hour (depending on temperature and humidity); excess can be trimmed with a sharp blade.
- Applying a light misting of clean water between each layer before subsequent application will permit faster cure and increase density.

Cleaning

Clean the gun by removing the foam canister and replacing with a can of illbruck AA290 PU foam cleaner. Remove excess foam immediately with illbruck AA290 PU foam cleaner or acetone. Ensure surface is solvent resistant before cleaning. Cured foam can only be removed mechanically. AA290 technical data sheet and safety data sheets are available at www.illbruck.com/AA290.

Storage

Store between +5°C and +25°C in dry conditions.

Shelf Life

12 months when stored in its original unopened containers.

Health & Safety Precautions

Safety data sheet must be read and understood before use. Extremely flammable- keep away from open flames and other ignition sources.

Nullifire
Smart Protection

FF197

Fire Rated PU Construction Foam

up to
240
mins



Key Benefits Summary

- Tested to BS EN 1634-1 (fire door) : FD60 performance achieved
- Gaps up to 35 mm (fire door)
- Tested without architrave (fire door)
- Tested with plastic packers (fire door)
- Tested to BS EN 1366-4 (linear gaps) : up to 4 hours fire resistance
- Pink coloured foam for easy identification
- Tack free in 10 minutes
- 2-in-1 gun & nozzle canister

CE
ETA 15/0172

certifire
APPROVAL N° CF5325



FFI97

Fire Rated PU Construction Foam



Technical Information

Property	Test Method	Result
Composition		Polyurethane foam
Fire Performance*	Tested to BS EN 1366-4	Up to 4 hours
	Tested to BS EN 1634-1	60 minutes
Classification	DIN4102: Part 1	B1
Canister Temperature Limits		+10°C to +30°C
Ambient Temperature Limits		+5°C to +35°C
Density	LAB015- 3 cm in width at 23°C and 50% RH	20-30 kg/m ³
Yield	FEICATM 1003	45 litres
Tack Free Time	FEICATM 1014	10 minutes
Cutting Time	FEICATM 1005	60 minutes
Tensile Strength	FEICATM 1018	81 kPa
Shear Strength	FEICATM 1012	57 kPa
Compression Strength (10%)	FEICATM 1011	47 kPa
Thermal Conductivity	EN 12667	0.036 W/m.K
Continuous Operating Temperature		Peak: -40°C to +130°C Continuous: -40°C to +90°C

*Please note that achievable fire rating depends upon specific joint configuration

Performance Data

Vertical Joints in AAC Walls / Tested to BS EN 1366-4 - Depth Completely Filled Fire Resistance in Minutes

Wall Thickness	Joint Width				
	5 mm	10 mm	20 mm	30 mm	40 mm
100 mm	180	120	60	45	30
100 mm - finished with FS711	180	120	120	120	120
150 mm	240	90	90	90	60
150 mm - finished with FS711	240	240	240	90	60
200 mm	240	180	180	120	60
200 mm - finished with FS711	180	240	240	120	60

Horizontal Joints in AAC Floors / Tested to BS EN 1366-4 - Depth Completely Filled Fire Resistance in Minutes

Floor Thickness	Joint Width				
	5 mm	10 mm	20 mm	30 mm	40 mm
150 mm	240	90	90	90	
150 mm - finished with FS711	240	90	90	90	60

Door and AAC & Plasterboard Walls - Tested to 1634-1 (Hardwood Frame 94 mm) Fire Resistance in Minutes

Wall Thickness	35 mm Joint Width
100 mm	60



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Fire Rated PU Construction Foam

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Up to FD 60 Tested Door Sets

Component	Tested Specification	Minimum Assessed Requirement
Wall	100 mm thick Gypsum/timber stud	100 mm thick masonry/concrete/timber or steel stud – min. EI 60 classified (EN 13501-2)
Aperture Lining	None	None, gypsum or other non-combustible board
Door Frame	94 mm deep hardwood – 620 kg/m ³	Hardwood
		Min. 94 mm deep
		Min. 620 kg/m ³ density
Packers	Plastic	Plastic or timber
Fixings	Steel screws	Steel screws
Doorset	Timber leaf/timber frame EI 60 classified (EN 13501-2)	Timber leaf/timber frame– min. E 60 or EI 60 classified (EN 13501-2)
Depth of Nullifire FF197	94 mm (min.) full depth of frame	Full depth of frame and min. 94 mm
Frame to Wall Gap	10-35 mm	10-35 mm
Configuration	Single-action, single-leaf	Single/double-action, single/double-leaf/leaf and half*
		* Leaf configuration is not considered critical to the frame to wall seal provided the door has the required classification.
Architrave	None	Any, no restriction

Up to FD 30 Tested Door Sets

Component	Minimum Assessed Requirement
Wall	100 mm thick masonry/concrete/timber or steel stud – min. EI 30 classified (EN 13501-2)
Aperture Lining	None, gypsum or other non-combustible board (must be lined in the case of frames less than 70 mm deep)
Door Frame	Softwood or hardwood
	Min. 94 mm deep without aperture lining/ Min. 70 mm deep with aperture framed and lined
	Min. 450 kg/m ³ density
Packers	Plastic or timber
Fixings	Steel screws
Doorset	Timber leaf/timber frame– min. E 30 or EI 30 classified (EN 13501-2)
Depth of Nullifire FF197	Full depth of frame and min. 70 mm
Frame to Wall Gap	10-35 mm
Configuration	Single/double-action, single/double-leaf/leaf and half*
	* Leaf configuration is not considered critical to the frame to wall seal provided the door has the required classification.
Architrave	Any, no restriction



FF197

Fire Rated PU Construction Foam

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Up to FD 120 Tested Door Sets

Component	Minimum Assessed Requirement
Wall	150 mm thick masonry/concrete – min. EI 120 classified (EN 13501-2)
Aperture Lining	None
Door Frame	Hardwood
	Min. 150 mm deep
	Min. 620 kg/m ³ density
Packers	Plastic or timber
Fixings	Steel screws
Doorset	Timber/composite leaf/timber frame– min. E 120 or EI 120 classified (EN 13501-2)
Depth of Nullifire FF197	Min. 115 mm
Depth of Nullifire FS702	Min. 17.5 mm to both faces
Frame to Wall Gap	10-35 mm
Configuration	Single/double-action, single/double-leaf/leaf and half* * Leaf configuration is not considered critical to the frame to wall seal provided the door has the required classification.
Architrave	Any, no restriction

Technical Service

tremco illbruck 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 01322 551010.

Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, but which is proved to be defective, will be replaced free of charge.

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