TRAFALGAR





Fire Rated Sealant

Up to 4 Hours Fire Protection

(to AS I530.4-2014)

1800 888 714 www.tfire.com.au

FYREFLEX



FIRE RATED SEALANT



Trafalgar Fyreflex Sealant is a water based, low VOC and environmentally friendly fire rated, intumescent based sealant.

FyreFlex has two distinct applications, the first being fire protection of construction and expansion joints in fire rated barriers. The second application being fire stopping of services passing through openings in fire barriers.

FyreFlex is unique in that it has over 25 years of fire and acoustic testing and is therefore approved for use in most control joint or fire stopping applications required under the Building Code of Australia.

FyreFlex was the first commercially available latex sealant in the Australian market and has proven performance in Australia's harshest building site conditions.

F	FYREFLEX USASGE RATE (ml/m)								
DEPTH OF JOINT (mm)		WIDTH OF JOINT (mm)							
	10	15	20	25	30	40	50		
10	100	150	200	250	300	400	500		
12	120	180	240	300	360	480	600		
15	150	225	300	375	450	600	750		
20	200	300	400	500	600	800	1000		



KEY FEATURES AND BENEFITS

- Known and trusted brandBenchmark Quality
- Australian made using Australian raw materials
- Environmentally friendly with low VOC levels
- Up to 4 hours fire ratings.

 (For full FRL, FyreWrap insulation will be required for some services)
- Water based allowing easy clean-up
- Water resistant once cured
 - Excellent adhesion properties
- For further information on these products, contact Trafalgar





APPLICATIONS

Trafagar FyreFlex is designed for sealing internal construction and expansion joints and openings for service penetrations requiring up to 4 hour fire ratings.

- Insitu internal joints in concrete, precast panels, block work, brick work and drywall systems.
- Sealing of electrical cables and pipe penetrations.
- Acoustic gap filling combined with fire rating requirement.
- Suitable for use with other Trafalgar products including board, mortar, pillow and collar systems.

METHOD OF APPLICATION

Install back-up material or joint filler such as Styrofoam as specified. Apply FyreFlex sealant in a continuous operation using a positive pressure adequate to properly fill and seal the joint or penetration. Tool FyreFlex with sufficient pressure to spread the sealant against the back-up material and onto the joint surfaces. A tool with a concave profile is recommended to achieve the correct shape.



Trafalgar is the well respected brand, synonymous with the supply of engineered solutions for the containment of fire, smoke and sound. As the foremost Australian owned supplier of passive fire protection systems, Trafalgar's products have been specified and installed into Australian buildings for over 70 years.



	FYREFLEX FIRE RATED SEALANT						
Product	Code	Volume	Colour	Box Volume	Pallet Quantity		
FyreFlex Cartridges	FyreFlex 300W FyreFlex 300G	300ml 300ml	White Grey	20	72 Boxes		
FyreFlex Sausages	FyreFlex 600W FyreFlex 600G	600ml 600ml	White Grey	18	45 Boxes		
FyreFlex Pails	FyreFlex 10W FyreFlex 10G	10L 10L	White Grey	N/A	32 Pails		

PRODUCT DESCRIPTION

COLOUR - White - For service penetrations and easy painting.

Grey - Colour matched to concrete or blockwork.

PACKAGING & HANDLING - Available in three convenient packaging options for to suit applicators preference: Bulk loading, troweled on from pails, sausage or cartridge caulking.

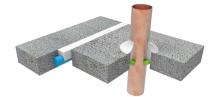
MOVEMENT CAPABILITIES - FyreFlex has a $\pm 10\%$ movement capability.

TESTING - Tested to AS1530.4 and AS4072.1 standards.

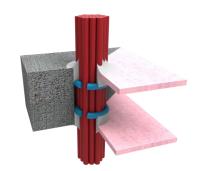
ENVIRONMENT - Easy clean-up, Low Volatile Organic Compounds (VOC) and Ozone Depleting Potential (ODP) formula.

SAFETY - FyreFlex sealant is a non hazardous substance, safe for general use. Please refer to product MSDS for full safety information.

ALSO AVAILABLE – Trafalgar offers a complete range of other fire stopping and fireproofing products.



COPPER PIPE FRL up to -/240/- on non insulated walls and floors



CABLE BUNDLE FRL up to -/240/-95 on walls and floors



SPECIFICATION AND STANDARDS

Testing

Fire tests have been conducted to AS1530.4, in accordance with AS4072.1, on concrete floors, brick, masonry, tilt-up panels, block and plasterboard walls.

Construction and Expansion Joints - Construction and expansion joints are to be fire stopped to maintain the required FRL of the wall or floor element by treatment with FyreFlex fire rated sealant in accordance with Trafalgar's instructions.

Service Penetrations - Service penetrations are to be fire stopped to maintain the required FRL of the wall or floor element by treatment with FyreFlex fire rated sealant in accordance with Trafalgar's instructions.

When full insulation rating (temperature rise) is required for the FRL, FyreWrap will be needed to be wrapped on ductile services such as cable trays and steel and copper pipes for example.

STORAGE & HANDLING

All materials shall be stored under cover in a manner that will prevent damage preferably on pallets and protected from moisture.

Do not freeze. Store in temperatures between 5°C - 30°C.

WARRANTY

Limited Warranty:

Your purchase and use of this product is subject to Trafalgar's standard terms and conditions of sale. Trafalgar's sole liability in the event of a product defect is, at our option, to replace this product or return it's purchase price.

All other warranties whether express of implied, including without limitations, any warranty of merchantability or fitness of purpose are expressly disclaimed unless prohibited by law or given in writing by Trafalgar for a specific project.

Disclaimer:

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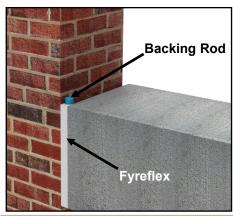
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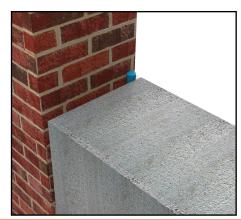
MASONRY CONSTRUCTION AND EXPANSION JOINTS (FYREFLEX GREY)

Concrete, Brick and Block Walls

A) JOINT PROTECTED FROM EXPOSED SIDE



B) JOINT PROTECTED FROM UNEXPOSED SIDE



C) JOINT PROTECTED FROM BOTH SIDES



FILL DEPTHS OF FYREFLEX (mm)														
JOINT WIDTH (mm)		10			20		2	5	3	0	4	0	5	0
JOINT FILL TYPE	Α	В	С	Α	В	С	Α	С	Α	С	Α	С	Α	С
RATING (minutes)														
-/120/120 -/180/180 -/240/240	10 10 15	15 15 15	10 10 10	10 10 30	30 30 35	10 10 15	12 12 30	12 12 20	15 15 30	15 15 20	20 20 40	20 20 20	25 25 40	20 20 20

NOTE: If the direction of fire is not known, sealant must be applied to both sides of the control joint, or to the thicknesses specified under joint type 'B'.

Internal Concrete and Pre-Cast Slabs



	FILL DEPTHS OF FYREFLEX (mm)						
			JOINT WIDTH (mm)				
WASTERN ST	RATING (minutes)	10	20	25	30	40	50
	-/120/120 -/180/180 -/240/240	10 10 15	10 10 30	12 12 30	15 15 30	20 20 40	25 25 40

SPECIAL APPLICATIONS

System Description	System Diagram	System Description	System Diagram
External applicationsUp to 4 hoursWith non-rated external grade sealant		Steel deckingUp to 4 hours	
Slab-on-slabUp to 4 hoursWith non-rated external or internal grade sealant		Joint between wall and floor slabUp to 4 hours	



Our Products are available Nationwide Sales: 1800 888 714

DRYWALL CONSTRUCTION AND EXPANSION JOINTS (FYRFLEX WHITE)

I HOUR PLASTERBOARD SYSTEMS

T-Junction between concrete wall and plasterboard wall

SYSTEM

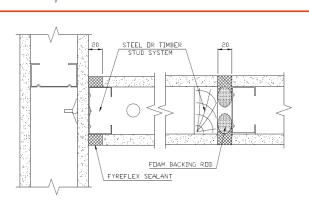
Typical control joint in plasterboard wall

T-Junction between two plasterboard walls

- Typical control joint in plasterboard wall
- Deflection head and base between concrete slabs and plasterboard wall

NOTE:

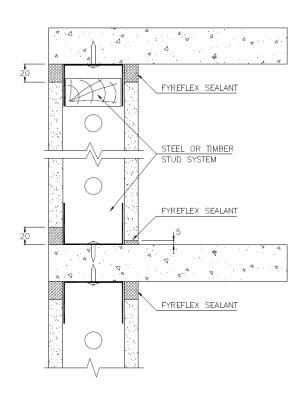
- Fire rated plasterboard systems must be installed according to manufacturers instructions.
- FyreFlex is filled to depth of plasterboard sheet



FYREFLEX SEALANT

FOAM BACKING ROD

SYSTEM DIAGRAM





DRYWALL CONSTRUCTION AND EXPANSION JOINTS (FYRFLEX WHITE)

2 HOUR PLASTERBOARD SYSTEMS

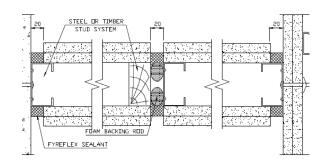
SYSTEM

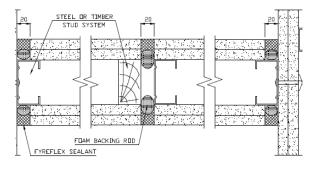
- T-Junction between concrete wall and plasterboard wall
- Typical control joint in plasterboard wall
- T-Junction between two plasterboard walls
- T-Junction between concrete wall and plasterboard wall
- Typical control joint in plasterboard wall
- T-Junction between two plasterboard walls
- Deflection head and base between concrete slabs and plasterboard wall

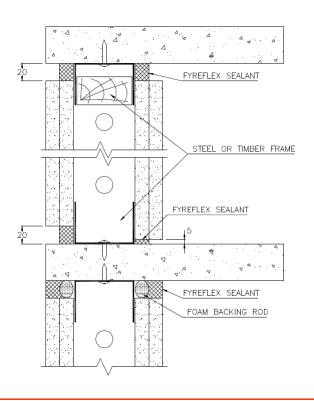
NOTE:

- Fire rated plasterboard systems must be installed according to manufacturers instructions.
- FyreFlex is filled to depth of plasterboard sheet

SYSTEM DIAGRAM







DRYWALL CONSTRUCTION AND EXPANSION JOINTS (FYRFLEX WHITE)

2 HOUR SHAFT WALL SYSTEMS

SYSTEM

T-Junction between concrete wall and

Typical control joint in shaft wall

shaft wall

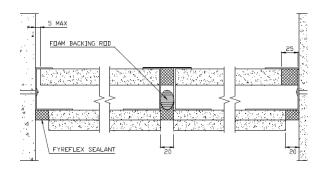
- T-Junction between two shaft walls
- T-Junction between concrete wall and shaft wall
- Typical control joint in shaft wall
- T-Junction between two shaft walls
- Deflection head and base

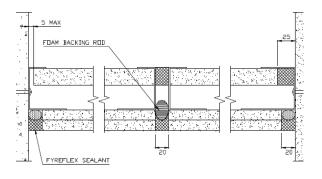
between concrete slabs and plasterboard wall

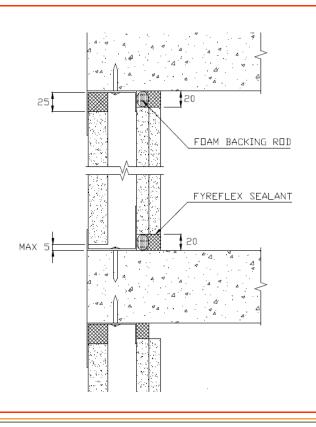
NOTE:

- Fire rated plasterboard systems must be installed according to manufacturers instructions.
- FyreFlex is filled to depth of plasterboard sheet

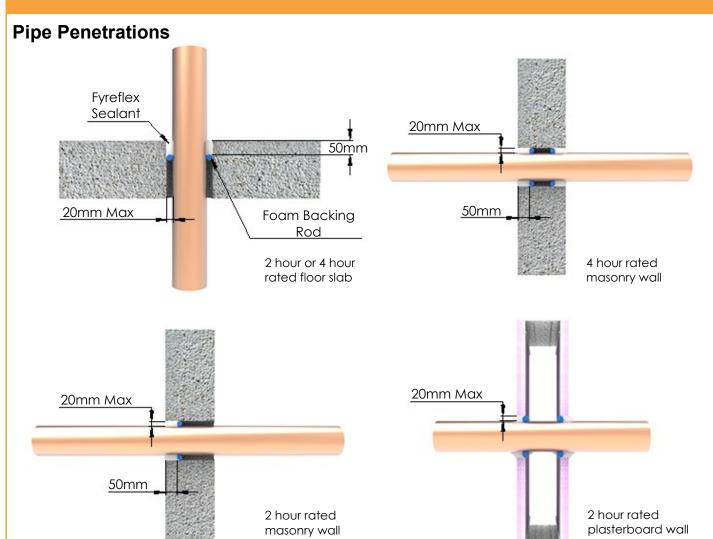
SYSTEM DIAGRAM







MISCELLANEOUS PENETRATIONS

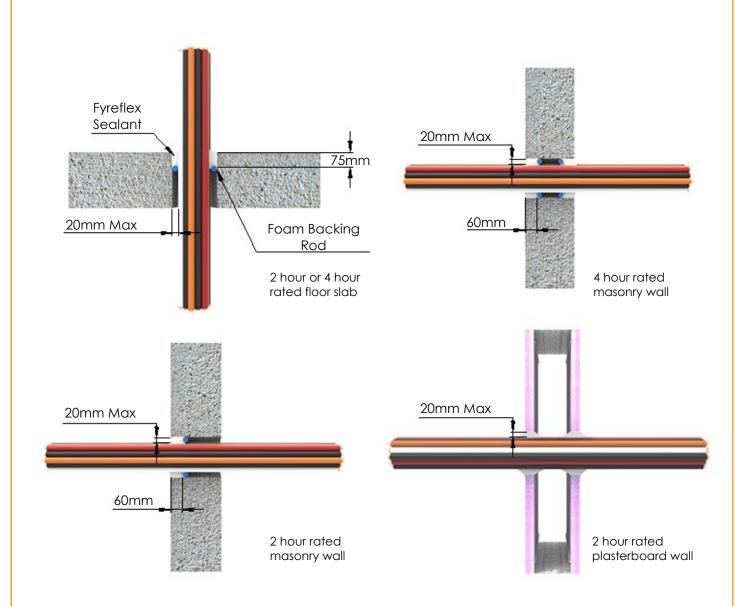


PIPE TYPE	WALL OR FLOOR	PIPE SIZES	FIRE RESISTANCE LEVEL
STEEL ⇒ Non Insulated ⇒ With 25mm rockwool insulation	Walls and floors Floors only	Up to 225mm diam. Up to 200mm diam.	-/240/- -/180/-
CAST IRON ⇒ Non insulated ⇒ With 25mm rockwool insulation	Walls and floors Floors only	Up to 225mm diam. Up to 200mm diam.	-/240/- -/180/-
BRASS ⇒ Non insulated	Walls and floors	Up to 102mm diam.	-/240/-
COPPER ⇒ Non insulated ⇒ With 25mm rockwool insulation	Walls and floors Floors only	Up to 225mm diam. Up to 19mm diam.	-/240/- -/120/-
FIBRE RE-INFORCED CEMENT PIPES AND COLUMNS	Walls and floors	Up to 225mm diam.	-/120/120



MISCELLANEOUS PENETRATIONS

Electrical Cable Penetrations



PENETRATION TYPE	WALL OR FLOOR	PENETRATION SIZES	FIRE RESISTANCE LEVEL
CINCLE CARLE	Malla and flagre	Llo to 54mm diam	/240/00
SINGLE CABLE	Walls and floors	Up to 54mm diam.	-/240/90
CABLE BUNDLE	Walls and floors	Bundle of up to 24 cables	-/240/90
STEEL CABLE TRAY	Walls and floors	Up to 380mm wide with assorted cables	-/240/90
BUS BARS	Walls and floors	50mm x 10mm copper bus bars	-/120/-



MISCELLANEOUS PENETRATIONS

Special Applications

SYSTEM	SYSTEM DIAGRAM	FIRE RESISTANCE LEVEL
Blank penetrationWalls and floorsMax 56mm diameter	MIN 100mm MIN 115mm	-/120/120
 Copper and aluminium bus bars Walls and floors Max size 10mm x 200mm 	30	-/120/-
Perimeter seal for steel duct and damper used in masonry walls and floors	FIRE RATED DAMPER ASSEMBLY 20 20 25	-/120/-
Perimeter seal for steel duct and damper used in drywalls	FIRE RATED DAMPER ASSEMBLY 20 22 25 25	-/120/-
Cable penetrations through plasterboard ceiling	140 25	-/60/- Note: Fire rated plasterboard systems must be installed according to manufacturers instructions FyreFlex is filled to depth of plasterboard sheet



FYREWRAP + FYREFLEX PENETRATIONS

Plasterboard, Masonry and aerated concrete wall applications

SYSTEM	SYSTEM DIAGRAM	FIRE RESISTANCE LEVEL
 HORIZONTAL Horizontal Floor slabs and fire rated ceilings 25mm x 25mm nominal fillet of FyreFlex sealant to entire perimeter extending along the FyreWrap and the fire stopping material Ductile and metallic services including steel, copper and brass pipes, pipes with combustible insulation materials, cables with and without cable trays, bus bars etc. FyreWrap at least 38mm thick for at least 450mm length, with a 75mm longitudinal overlap, applied to the top of the horizontal separating element only 12mm wide x 0.4mm nominal thick steel banding at mid point and 50mm nominal from each end Backing rod 	20mm max 1	-/120/120
 VERTICAL Vertical fire rated masonry, aerated concrete and plasterboard walls 25mm x 25mm nominal fillet of FyreFlex sealant to entire perimeter extending along the FyreWrap and the fire stopping material Ductile and metallic services including steel, copper and brass pipes, pipes with combustible insulation materials, cables with and without cable trays, bus bars etc. FyreWrap at least 38mm thick for at least 450mm length, with a 75mm longitudinal overlap 12mm wide x 0.4mm nominal thick steel at mid point and 50mm nominal from each end Backing rod 	3 3	-/120/120



JOINT SEALANT QUANTITY ESTIMATION TABLE

Note: All quantities estimate for 100 lineal metre requirement

Joint WIDTH	: Size DEPTH	LITRES	300ml Cartridge	600ml SAUSAGES	10 LITRE PAIL
5	10	5	17	9	-
6	10	6	20	10	-
8	10	8	27	14	-
10	10	10	34	17	1
15	10	15	50	25	2
15	15	22.5	75	38	3
20	10	20	67	34	2
20	15	30	100	50	3
20	20	40	134	67	4
25	15	37.5	125	63	4
25	20	50	167	84	5
30	15	45	150	75	5
30	20	60	200	100	6
40	20	80	266	134	8
50	20	100	334	167	10
60	20	120	400	200	12

FORMULA FOR ESTIMATING QUANTITY OF JOINT SEALANT REQUIREMENTS (Use whole numbers for millimetres and metres)

L = Length of joint in metres	D = Depth of joint in millimetres		
W = Width of joint in millimetres	Q = Quantity of Litres required		
C =	100m x 15mm x 10mm e.g. Q = ———————— = 15 Litres		
1000	1000		

Notes:

- 1. Sealant depth in joints between 10mm & 40mm wide should never be less than half the width
- 2. It is not recommended for any sealant depth to be less than 10mm or greater than 20mm
- 3. To estimate the quantity of a triangular fillet, the amount of sealant required would be half that required for a rectangular joint of the same dimensions

