

Proseries Fireblock

PSA Composite Fire & Acoustic Sealant

Description

Selleys Proseries Fireblock is a low modulus, non-slumping, PSA composite sealant suitable for fire and acoustic rated construction. It is grey in colour and available in a 600ml sausage.

Uses

- Non-trafficable control joints in concrete, masonry, aerated concrete and brick fire rated construction.
- Acoustic sealing between most common building materials such as concrete, masonry, aerated concrete, plasterboard, fibre cement, metals, timber and plastic as part of a suitable design.
- Penetrations and perimeter sealing in plasterboard and aerated concrete
- Sealing in conjunction with fire collars, pillows and dampers.

Features/Advantages

- Meets BCA requirements for fire and acoustic sealing
- Fire rated for up to 4 hours
- Will not degrade acoustic walls up to 67Rw
- Excellent adhesion to most building materials
- Paintable
- Water clean up
- Low VOC
- Halogen free
- Isocyanate free

Instructions for Use/Application Instructions

The following should only be used as a guide and the installer should apply all Australian Standards, BCA/NZBC requirements, and best practices when using *Proseries Fireblock*.

- Substrates must be clean, dry and free from oil, grease, release agents, dust and loose material.\
- For fire rating, joint width should be between 10mm and 40mm. Minimum joint depth should be 10mm or half the width for joints wider than 20mm. Install open cell polyurethane backing rod in joint to control sealant depth.
- Extrude sealant smoothly into joint, while ensuring that all substrates are well wetted out with sealant.
- The sealant cures by water evaporation; therefore cure rate is dependent on humidity, ambient temperature and joint size. Typically, the sealant will form a thick skin within 24 hours and full cure can be expected after 7 days.
- In humid or cool conditions the sealant cure will be longer.
- Allow the sealant to form a thick skin before painting with a flexible paint. To avoid paint cracking, the sealant should be allowed to fully cure before painting with flat and/or ceiling paint.

Standards Tested

- AS1530.5-2005 Fire test in vertical concrete and plasterboard – control joints, penetrations and perimeter seals
- ISO 717-1 Acoustic testing in plasterboard lined wall
- ASTM E1966-07 Vertical control joints
- ASTM E814-09 Vertical plasterboard wall with penetrations
- ISO9046 Joint movement capability

Summary of tests to AS1530.4

Expansion Joints on concrete (120mm thick)

Report Number	Test Type	Joint Width	Joint Depth	1 or 2 sided	Resistance to passage of flame	Insulation limit of 181C temperature rises	Rating
Exova: 2259500.3 (Concrete)	Expansion Joint	10mm	10mm	1: fire side only	No failure at 241 mins	146 mins	240/120
	Expansion Joint	40mm	20mm	1: fire side only	No failure at 241 mins	68 mins	240/60

Penetration and perimeter seals on fire rated gypsum board

Report Number	Test Type	Joint Width	Joint Depth	1 or 2 sided	Resistance to passage of flame	Insulation limit of 181C temperature rises	Rating
Exova: 2254400 (plasterboard)	A-vertical control joint	20mm	16mm	2: fire and non fire side	No failure at 155 mins	155 mins	120/120
	B-deflection head joint	20mm	16mm	2: fire and non fire side	No failure at 155 mins	130 mins	120/120
(115mm thick steel stud plaster board wall)	C-40mm brass pipe	10mm	16mm	2: fire and non fire side	No failure at 155 mins	35 mins	120/30
	D-D2 GpB cable install	20mm	16mm	2: fire and non fire side	failed at 104 mins ¹	37 mins	90/30
	E-D1 GpA cable install	40mm	16mm	2: fire and non fire side	failed at 142 mins	38 mins	120/30
	F-150mm copper pipe	10mm	16mm	2: fire and non fire side	No failure at 155 mins	8 mins	120/0
	G-100mm brass pipe	10mm	16mm	2: fire and non fire side	failed at 68 mins ²	7 minutes	60/0

Notes:

¹ Ignition of the cable sheathing

² Failure of cap on pipe at 68 minutes venting furnace gases

Low insulation figures are indicative of heat transfer via the pipe and/or cable not the sealant.

Penetrations in masonry, concrete and Autoclaved Aerated Concrete

Report Number	Opinion
Exova: 25050-03 (opinion)	Covers various pipes up to 150mm diameter and includes ferrous metals as well as brass and copper with opinion that same results would occur with same configurations in joints Covers various cable configurations BUT for Covers header and vertical joints for different substrates such as Masonry, Hebel and Concrete as well a gypsum as tested Masonry walls/Concrete walls and Hebel ACC walls for same fire ratings

1 hour Penetration in single layer 16mm fire rated gypsum board

Report Number	Test Type	Joint Width	Joint Depth	1 or 2 Sided	Integrity	Insulation	Rating
Exova 27179-00	Metal Pipes	10mm	16mm*	2: Fire and non fireside	60 mins	0	60/-
	Cables	10mm	16mm*	2: Fire and non fireside	60 mins	30 mins	60/30

Notes:

1 layer of 16mm fire rated plasterboard either side of a stud wall. Total wall thickness of 83mm.

To achieve the 1 hour rating the sealant must have a minimum depth of 16mm achieved by chamfering the joint in a triangular configuration from the pipe or cable to the face of the board. Refer specific penetration systems in Report 2254400.

2 hour Penetrations in fire rated gypsum board where cables and pipes are sheathed in Rockwool

Report Number	Test Type	Joint Width	Joint Depth	1 or 2 Sided	Integrity	Insulation	Rating
27279-01 Metal Pipes	1 layer fireboard	20mm	16mm	2 sided	60 mins	60 mins	60/60
	2 layers fireboard	20mm	16mm	2 sided	120mins	120 mins	120/120
PVC Cables	1 layer fireboard	20mm	16mm	2 sided	60 mins	60 mins	60/60
	2 layers fireboard	20mm	16mm	2 sided	120 mins	120 mins	120/120

Airbourne Sound Transmission

ATF Report #	Wall description	Joint Details	Sound Rating Rw		
			Filler Wall	No sealant in Slots	Slots filled with Fireblock
2061	Filling Slots (Joints) in Multilayered plasterboard Filler (internal) wall 9.95m2 in area	12mm x 12mm x 12 metres total length (Max expected sealant usage for wall of this area)	67(-1,-3)	35	67

Storage

Store unopened sausages below 30°C in a cool dry place away from direct sunlight. Unopened sausages can be stored for 24 months from the date of manufacture. Opened sausages may skin and form a lump near the opening. Discard any lumps or skin and remaining product can be used.

Technical Data/Properties

Contact Selleys before using this data for the setting of specifications.

Property	Typical Result
Colour	Grey
Density	1.53
Technology	PSA composite
Application Temperature	10 – 45 ⁰ C
Shelf Life	24 months
Shore A Hardness	18
Working Time	30 minutes @25 ⁰ C
Joint Movement Capability (ISO 9046)	+/- 25%
Elongation at break (ASTM D412)	900%
Modulus (ASTM D412)	0.15 MPa
Viscosity	12000 Poise
Acoustic Rating Rw(CT;CTR) (AS/NZ ISO717-1)	67 (-1;-3)
Fire Rating* (AS1530.4)	-/240/120
VOC	5.5 g/L

Important Notes/Limitations

- Results quoted for fire rating in table are for a 10mm x 10mm joint in concrete
- Not recommended for continuous submersion or below water line use.
- For exterior applications protect from rain until sealant has developed a thick skin.

Safety

No special personal protective equipment required. Wash hands after use. Rubber gloves are recommended if handling often.

Not classified as Dangerous Goods.

Not classified as Hazardous.

Refer to Safety Data Sheet for more detailed information.

Clean up

Clean tools and equipment in water before the sealant cures. To remove cured sealant, tools will need to be soaked in water followed by mechanical action.

Disclaimer

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