

SELLEYS®

FIREBLOCK®

Fire & acoustic rated
sealants & adhesives



FIREBLOCK® PSA

PSA composite fire and acoustic rated sealant.



PRIMARY CLAIMS

- Excellent Elongation & Adhesion
- Fire rated for up to 4 hours
- Acoustic Rated up to Rw67
- UV Tracer
- Low VOC 5.5g/L

OTHER CLAIMS

- +/- 25% Joint Movement Capability
- Water Clean Up
- Paintable
- Low odour & low toxic
- Isocyanate Free
- Formulated & manufactured locally



USES

SUPERIOR ADHESION TO FRIABLE SURFACES

- 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.

Property	Typical Result
Product Code	930069711862201
Colour	Grey
Density	1.53
Technology	PSA composite
Application Temperature	10 - 45°C
Shelf Life	24 months
Shore A Hardness	18
Working Time	30 minutes @25°C
Joint Movement Capability	+/- 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
Supply	600ml Sausage (12 per carton)

Indicative data only, not intended for preparation of specifications.

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

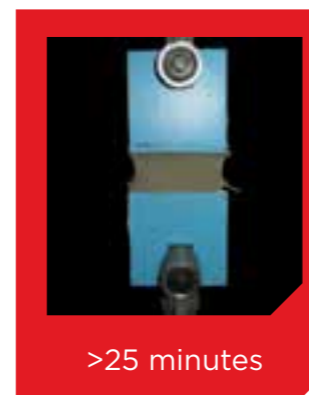
Important Notes

Results quoted for fire rating in table are for a 10mm x 10mm joint in concrete. For exterior applications protect from rain until sealant has developed a thick skin. If used externally, Fireblock PSA must be painted over.

ADHESION TEST

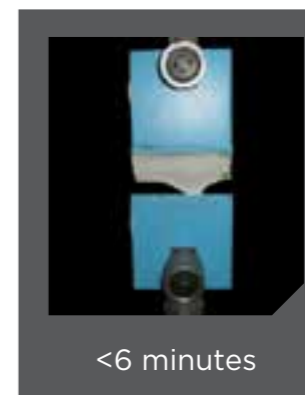
10mm thick gypsum panels (100 x 100mm) with 25mm wide joint sealant. Pulled to destruction on Instron at 6mm/minute

FIREBLOCK®



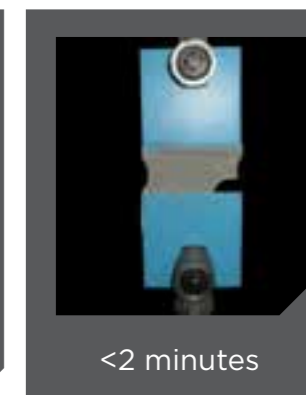
>25 minutes

ACRYLIC



<6 minutes

POLYURETHANE



<2 minutes

ACOUSTIC TEST



67 Rw



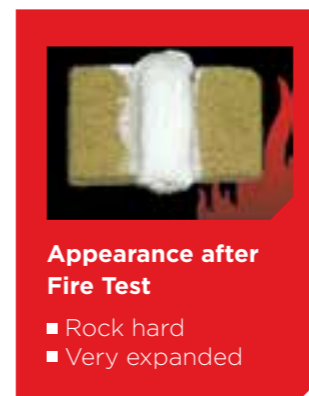
50 Rw



45 Rw

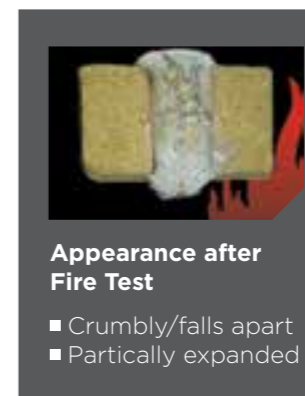
FIRE TEST

We conducted tests to evaluate the properties of different sealant formulations when faced with heat & fire. Fireblock has consistent expansion across the joint ensuring good sealing on both surfaces.



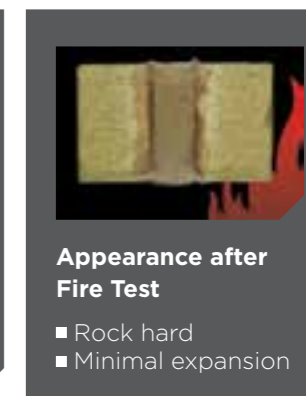
Appearance after Fire Test

- Rock hard
- Very expanded



Appearance after Fire Test

- Crumbly/falls apart
- Partically expanded



Appearance after Fire Test

- Rock hard
- Minimal expansion

UV TRACER

Fireblock contains a UV tracer. To determine if Fireblock PSA has been applied, shine a UV light on the sealant.



DAYLIGHT

UV LIGHT

FIREBLOCK® XT

High UV resistant fire and acoustic rated SMP sealant.



PRIMARY CLAIMS

- Superior UV & weatherability resistance
- Fire rated up to 4 hours
- Adhesion to wet or damp surfaces
- Complies with BCA Acoustic requirements
- Primerless adhesion



USES

SUPERIOR ADHESION TO CONCRETE, BRICK & BLOCKWORK

- External and internal, non-trafficable control joints in concrete, masonry, AAC and brick fire rated construction.
- External Façade joint seals in close proximity to neighbouring building
- Draught and water seals in external fire walls
- External AAC facade joint seals
- Internal/external control joints and perimeter seals
- Blockwork and fire stairs in high rise construction
- High UV exposed applications
- Installation over a wide temperature range

*Meets Green Building Council of Australia VOC limits for multipurpose construction adhesives and architectural sealants.
+ Paintable with water-based paints after product skins in 60 to 90 minutes.

OTHER CLAIMS

- +/- 20% Joint Movement Capability
- Better curing (>5°C)
- Non-bubbling
- Better extrudability (>5°C)
- Solvent & Isocyanate free
- Low VOC 15g/L
- Paintable +

Property	Typical Result
Product Code:	630210
Colour	Concrete Grey
Density	1.47
Technology	SMP
Application Temperature	5 - 45°C
Shelf Life	12 months
Shore A Hardness	31
Working Time	30 minutes @25°C
Joint Movement Capability (ISO 9047)	± 20%
Elongation at break (ASTM D412)	260%
Modulus (ASTM D412)	0.67 MPa
Viscosity	11,000 Poise
Acoustic Rating Rw(CT;CTR)	up to 50Rw
Fire Rating* (AS1530.4)	-/240/120
VOC	15 g/L
Supply	600ml Sausage (12 per carton)

Approvals/Standards

- AS1530.4-2005 Fire test in vertical concrete and AAC - control joints
- ISO9047 Joint movement capability

Indicative data only, not intended for preparation of specifications
Results quoted for fire rating in table are for a 40mm x 20mm joint in concrete sealed both sides

FIRE TESTING

Excellent fire performance, maintains fire seal integrity after exposure to heat and fire. Up to 4 hour fire rating (AS1530.4). Fire test conducted in joints up to 40mm wide.

FIREBLOCK XT POLYURETHANE



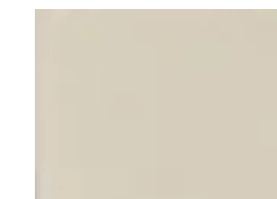
After heat and fire exposure Fireblock XT maintained fire seal integrity.

Standard PU sealant became crumbly and fell apart after exposure to heat and fire.

SUPERIOR UV RESISTANCE



SMP after UV Exposure



PU after UV Exposure

PAINTABILITY

Fireblock XT is paintable with water-based paints after product skins in 60 to 90 minutes.



SMP



Silicone

PRIMERLESS ADHESION

ADHESION TO WET OR DAMP SURFACES





PRIMARY CLAIMS

- Fire rated up to 2 hours
- Maximum Strength
- Water Clean Up
- Complies with BCA Acoustic Requirements^



USES

- Edge bond adhesive for FC and CFC sheet in fire rated construction.
- Adhesive for C-Channel to structure in fire rated construction.

Refer to Technical Data Sheet for standards tested.

*Can be painted with water based or solvent based paints as soon as product has skinned over
 ^ Will not degrade acoustic walls up to 40Rw
 + Meets GBCA VOC requirements

OTHER CLAIMS

- Paintable
- Solvent free
- Isocyanate free
- Low VOC*

Property	Typical Result
Product Code:	100529
Density	1.4
Technology	Acrylic water based
Application Temperature	10-45°C
Shelf Life	24 months
Working Time	30 minutes @25°C
Adhesive Strength	1.2MPa
Viscosity	6000 Poise
Fire Rating* (AS1530.4)	-/120/120
VOC	15 g/L
Supply	600ml Sausage (12 per carton)

Approvals / Standards

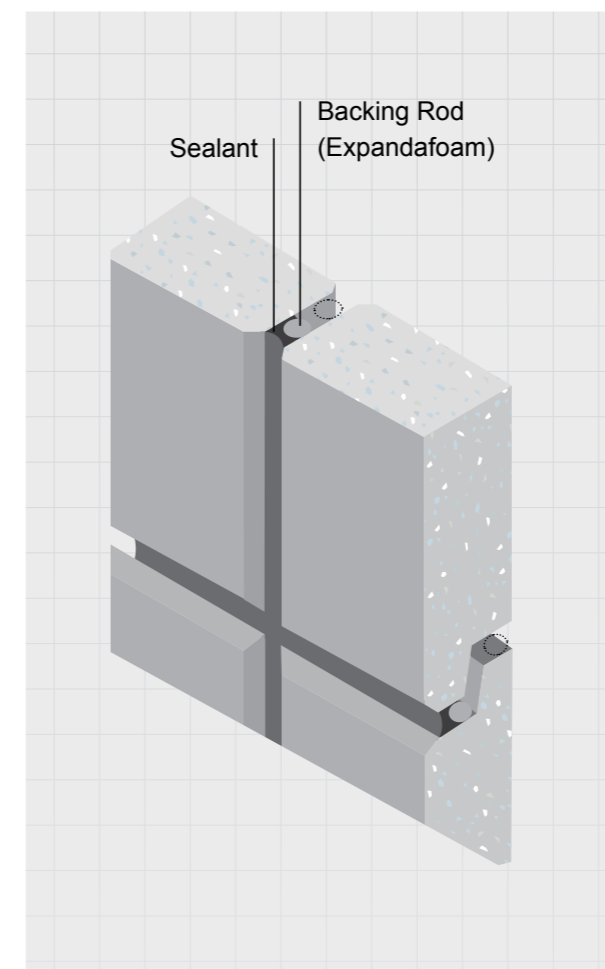
- AS1530.4-2012 Fire test in vertical extruded concrete panels - control joints, penetrations and perimeter seals.

ADHESIVE APPLICATION METHOD

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 Selley's Fireblock PB™.

- Substrates must be clean, dry and free from oil, grease, release agents, dust and loose material.
- For fire rating, apply an 8mm diameter bead of adhesive into the groove (T&G Application) or edge (Butt joint) of panel to be adhered.
- Bring in next panel making sure adhesive squeezes out uniformly over the edge to be bonded.
- Selley's Fireblock PB™ can also be applied between the galvanised steel C-Channel and building structure, when pinned and used for mounting of non-structural wall systems.
- Extrude adhesive smoothly onto surface, while ensuring that all substrates are well wetted out.

SEALANT JOINT DESIGN



DESIGN CRITERIA

Joint Design

Joints up to 10mm wide, width to depth ratio = 1:1
 Joints greater than 20mm, width to depth ratio = 2:1

Priming

Excellent adhesion can be gained on concrete, timber, metals, ceramics, brickwork and most coating surfaces without the use of primers. On some surfaces (such as FC sheet) however, adhesion may be improved by the use of a primer. Refer to your local Parchem office for technical data sheet.

Backing Rod

To achieve the correct depth to width ratio, backing rod provides a firm backing to ensure sealant can be tooled off. In all joints a bond breaker must be used to prevent sealant contact with the back of the joint. In shallow joints self-adhesive polyethylene tape can be used. Deep joints should incorporate a backing strip such as Expandaf foam PEF Rod to support the sealant while also acting as a bond breaker.

Coverage

On average one 600ml sausage will supply 12 metres of 10mm x 5mm sealant bead.





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