

**SELLEYS®**  
PROSERIES™

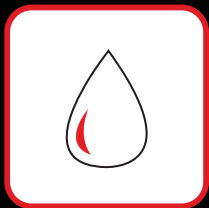
# Fireblock™

Fire and acoustic rated sealant



## A Revolution in Fire and Acoustic Rated Sealants

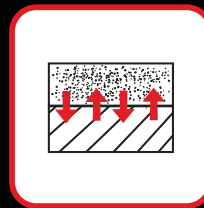
-  **SUPERIOR ADHESION**
-  **SUPERIOR DESIGN**
-  **SUPERIOR FIRE PERFORMANCE**



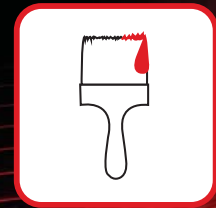
WATER  
CLEAN UP



FIRE RATED  
FOR 4 HOURS\*



EXCELLENT  
ADHESION



PAINTABLE



**enviroOK™**  
Isocyanate  
FREE



Meets Green Building  
Council of Australia  
VOC limits

\*Results may vary as product is used within a system.

# Fireblock™

# BLOCKS FIRE BLOCKS SOUND

with revolutionary performance

## ✓ High adhesive strength

High bond strength to common building substrates ensures a superior integrity for fire and acoustic sealing.

## ✓ Acoustic rated to BCA

Acoustic rating of Rw67 achieved in independent testing. Meets or exceeds building code requirements Rw (CT:CTR) 67 (-1:3). Acoustic testing AS/NZS ISO 717.1:2004.

## ✓ Unique modulus

Puts less strain on adhesive interface - crucial to ensure long term integrity of +/- 12.5% rated movement (ISO9047), including weak substrates such as gypsum board. Can also be used on joints up to 40mm.

## ✓ In intense fire expands into hard plug

Other products either shrink or powder after fire. Integrity of the sealant installment is maintained after intense fire. Tested in a 4 hour fire text in accordance to AS1530 4-2005 and ASTM E1966 -07.

## ✓ Toughness

Will not damage easily - integrity of fire seal even against vandalism or if accidentally cut. Resumes shape when distorting force is removed.

## ✓ Plastic yield when extended excessively

Sealant maintains properties even when excessively stretched without losing joint integrity. Strong elastic systems can fail in adhesion while weak plastic systems can easily tear when overstretched.

## ✓ UV tracer

Allows inspectors to check installment of product and sign off correct installation. Eliminates installer error or replacement by inferior performing sealant.

## 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

✓ Fireblock outlasted with more than 25 minutes of pressure.

### ACRYLIC



<6 minutes

### POLYURETHANE



<2 minutes

## Acoustic Test\*

Tests were conducted to measure acoustic rating as claimed in technical data sheets. Results vary depending on the system used.

Test up to 67 Rw

✓ Rw (CT:CTR) 67 (-1:3)  
Tested in a Rw rated wall system

50 Rw

45 Rw

## Fire Test

We conducted tests to evaluate the properties of different sealant formulations when faced with heat & fire.

Fireblock had consistent expansion across the joint ensuring good sealing on both surfaces.



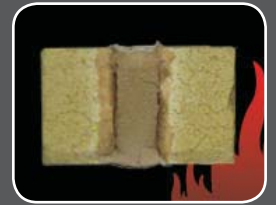
Appearance after Fire Test

✓ • Rock Hard  
• Very Expanded



Appearance after Fire Test

X • Crumbly/Falls Apart  
• Partially Expanded



Appearance after Fire Test

X • Rock Hard  
• Minimal Expansion

## Durability Test

Fireblock had almost 80% spring back, both other sealants demonstrated almost no spring back and suffered heavy and damaging penetration impact.

✓ + Tough semi elastic skin  
+ Tough throughout sealant  
+ Hard to damage by cutting  
+ Hard to press thumb into sealant  
+ Difficult to damage by finger nail  
+ 80% spring back when force removed

- Non elastic skin  
- Soft  
- Easily cut  
- Almost no spring back  
- Easily damaged with fingernail

+ Tough, semi elastic skin  
- Easily penetrated  
- Almost no spring back



envirOK™

Isocyanate free, low toxic, odour and VOC  
= less harmful to the environment and user



# Fireblock™

Fireblock is a PSA composite fire and acoustic sealant with a unique formulation, which is why it delivers.

UNIQUE

# UV Indicator

Daylight

UV Light



**SHED SOME UV LIGHT & ENSURE THE JOB'S DONE RIGHT**

**Fireblock™** is the only fire and acoustic rated sealant for the job. But how do you tell that **Fireblock™** has been used? Easy, simply shine a UV light on the joint.

**Fireblock™** has been tested to:

- AS1530.4-2005
- AS4072.1
- ASTM E1966-07
- ASTM E814-09
- ISO-717.1:2004

### Fireblock™

Size	Outer/Box Qty
900g/600ml	10



The information selected here is taken from published product information and tests conducted by Selley's in March 2011. Selley's is a registered trade mark in Australia and New Zealand and a trade mark in the United Arab Emirates. enviroK and ProSeries are trade marks. Fireblock™ is a registered trade mark in Australia and a trade mark in New Zealand and the United Arab Emirates. For additional information including Material Safety Data Sheets visit [www.selley.com.au](http://www.selley.com.au). To obtain more detailed technical, usage and safety information including Technical Data Sheets phone Selley's in Australia on 1300 555 205.

For more information phone **Selley's** on **1300 555 205** or visit [www.selleystrade.com.au](http://www.selleystrade.com.au)

TR 923





## Technical Data Sheet

# Proseries Fireblock

Updated  
16/11/2011

### DESCRIPTION

Proseries Fireblock is a low modulus, non-slumping, PSA composite sealant suitable for fire and acoustic rated construction.

### SIZES AVAILABLE

The sealant is available in a 900g sausage and is light grey in colour only.

### USES

Non-trafficable control joints in concrete, masonry and brick fire rated construction.

Acoustic sealing between most common building materials such as concrete, masonry, plasterboard, fibre cement, metals, timber and plastic as part of a suitable design. Penetrations and perimeter sealing in plasterboard.

### TECHNICAL FEATURES

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

### 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.

### LIMITATIONS

Not recommended for continuous submersion or below water line use. For exterior applications protect from rain until sealant has developed a thick skin.

### TECHNICAL DETAILS

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

Property	Typical Result	Standard
Colour	Light Grey	
Working Time	30 minutes	
Joint movement capability	+/- 12.5%	ISO 9047
Elongation at Break	900%	ASTM D412
Modulus	0.15 MPa	ASTM D412
Viscosity	8500 Poise	
Specific Gravity	1.53g/ml	
Acoustic Rating Rw (CT; CTR)	67 (-1; -3)	AS/NZ ISO717-1
Fire rating*	-/240/120	AS1530.4
Halogen Free	Yes	
VOC	5.5g/L	GBCA IEQ-13 V3 2008

\* Results quoted are for a 10mm x 10mm joint in concrete (refer below for detail).

### HOW TO USE

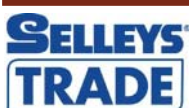
#### Application

Substrates must be clean, dry and free from oil, grease, release agents, dust and loose material. Cut the end of the sausage and place in a Selleys sausage gun.

Extrude sealant smoothly into joint.

#### Joint Design

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.



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## Technical Data Sheet

# Proseries Fireblock

Updated  
16/11/2011

### Cure

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.

### Painting

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.

### FIRE RATED COMPLIANCE

Proseries Fireblock has been tested in accordance with AS1530.4 – 2005, ASTM E814-09 and ASTM E1966-07. The data specified in this document should be used as a guide only. Full test reports should be consulted before using this product.

#### Control Joints AS1530.4

Vertical 120mm reinforced concrete slab with horizontal control joints of width 10mm and 40mm.

The sealant depth was controlled with open cell polyurethane backing rod to a depth of 10mm and 20mm respectively.

The sealant was applied to the fire side of the joint only.

Joint Width	Joint Depth	FRL
10mm	10mm	-/240/120
40mm	20mm	-/240/60

BWFA Report 2259500  
Test Date 4<sup>th</sup> June 2008

#### Penetrations AS1530.4

Vertical plasterboard wall incorporating the following;

- A. Control Joint - 20mm wide
- B. Deflection Head
- C. 40mm diameter brass pipe
- D. D2 Type telecommunications cable installation
- E. D1 Type telecommunications cable installation
- F. 150mm diameter copper pipe
- G. 100mm diameter brass pipe

Service	FRL
A	-/120/120
B	-/120/120
C	-/120/30
D	-/90/30
E	-/120/30
F	-/120/-
G	-/60/-

BWFA Report 2254400  
Test Date 15<sup>th</sup> September 2008

#### How to read the FRL

A/B/C is the shorthand method of expressing the Fire Resistance Level (FRL), where;

A is the Structural value (not applicable for sealants)

B is the integrity value (time in which sealant remained intact)

C is the insulation value (time in which the temperature on the non fire side of the sealant was below 180°C above ambient temperature)

A, B and C are expressed in minutes.



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# Proseries Fireblock

Updated  
16/11/2011

### Control Joints ASTM E1966-07

Vertical 120mm reinforced concrete slab with vertical control joints of width 20mm and 40mm. The sealant depth was controlled with open cell polyurethane backing rod to a depth of 10mm and 20mm respectively.

The sealant was applied to both the fire side and non fire side.

	20mm Joint	40mm Joint
<b>Resistance to passage of flame</b>	No failure at 241 minutes	No failure at 241 minutes
<b>Insulation</b>	128 minutes	125 minutes
<b>Resistance to passage of water</b>	No opening formed	No opening formed
<b>Rating</b>	F	F

EWFA Report 2505400.1  
Test Date 10<sup>th</sup> September 2010

### Penetrations ASTM E814-09

Vertical plasterboard wall incorporating the following;

Control Joint - 20mm wide

Deflection Head

40mm diameter brass pipe

D2 Type telecommunications cable installation

D1 Type telecommunications cable installation

150mm diameter copper pipe

100mm diameter brass pipe

An assessment for use in Hebel (based on these results) has also been prepared.

### Pipes

	38mm Brass	150mm Copper	100mm Brass
<b>Resistance to passage of flame</b>	No failure at 121 minutes	No failure at 121 minutes	No failure at 121 minutes
<b>Insulation</b>	28 mins	11 mins	12 mins
<b>Resistance to passage of water</b>	No opening formed	No opening formed	No opening formed
<b>Rating</b>	F	F	F

### Cables

	D1 Type telecom	D2 type telecom
<b>Resistance to passage of flame</b>	No failure at 121 minutes	No failure at 121 minutes
<b>Insulation</b>	69 mins	62 mins
<b>Resistance to passage of water</b>	No opening formed	Opening formed
<b>Rating</b>	F	-

### Joints

	Control Joint	Deflection Head
<b>Resistance to passage of flame</b>	No failure at 121 minutes	No failure at 121 minutes
<b>Insulation</b>	No failure at 121 minutes	No failure at 121 minutes
<b>Resistance to passage of water</b>	No opening formed	No opening formed
<b>Rating</b>	T	T

EWFA Report 2505300.1  
Test Date 9<sup>th</sup> September 2010



## Technical Data Sheet

# Proseries Fireblock

Updated  
16/11/2011

### ACOUSTIC COMPLIANCE

Proseries Fireblock has been tested at the National Acoustic Laboratory (NAL) in a multilayered plasterboard 'filler' wall for Airborne Sound Transmission.

All work was carried out in accordance with AS/NZ ISO 717.1:2004.

Test	Result
ISO-717 Sound Insulation Rating $R_w$ (C;Ctr)	67 (-1 ; -3)
Sound Transmission Class	STC 67
Outdoor-Indoor Transmission Class	OITC 60
Unweighted average transmission loss (100Hz-5kHz)	64 dB
A-Weighted average transmission loss value (100Hz-5kHz)	60 dB (A)

Rating of blank wall = 67Rw

ATF Report 2080A

Test Date 5<sup>th</sup> December 2007

### WARNINGS/FIRST AID & SHIPPING

**INFORMATION:** Refer to the MSDS section located on the Selleys Website.



Ph: AU - 1300 555 205  
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Head Office: 1 Gow Street, Padstow NSW 2211 AU

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** PROSERIES FIREBLOCK

**Recommended Use:** Sealant for fire rated construction.

**Supplier:** Selleys Australia, a division of DuluxGroup (Australia) Pty Ltd  
**ABN:** 67 000 049 427  
**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia

**Telephone Number:** +61 2 9781 8777  
**Facsimile:** +61 2 9781 8825  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

## 2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**Poisons Schedule:** None allocated.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Ingredients determined not to be hazardous	-	to 100%	-
Boron zinc hydroxide oxide	138265-88-0	1-<10%	R50/53

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

### Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

### Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

### Ingestion:

Rinse mouth with water. If swallowed, give a glass of water to drink. Seek immediate medical assistance.

### Medical attention and special treatment:

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Hazards from combustion products:

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes, including those of oxides of carbon and oxides of nitrogen .

### Precautions for fire fighters and special protective equipment:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

### Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

### Methods and materials for containment and clean up:

SMALL SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wipe up with rag or absorbent paper.  
LARGE SPILLS: Work up wind or increase ventilation. Wear protective equipment to prevent skin and eye contact. Scrape up excess material before cure. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Cured material can only be removed by cutting or abrasion.

## 7. HANDLING AND STORAGE

### Conditions for safe storage:

Store in cool place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

### Precautions for safe handling:

Keep out of reach of children. Avoid eye contact and repeated or prolonged skin contact.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** No value assigned for this specific material by the National Occupational Health and Safety Commission.

### Engineering controls:

Use in well ventilated areas. Keep containers closed when not in use.

### Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Selleys Factory Safe Handling Code: Green



# Safety Data Sheet



MANUFACTURE, PACKAGING AND TRANSPORT: Green - Wear overalls (or 'issued' long pants and long sleeve tops), safety boots, gloves and safety glasses. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

FOR CONSUMER USE: When using the product as a sealant: wear protective clothing, impervious gloves and safety glasses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Colour:	Grey
Odour:	Characteristic Acrylic
Solubility:	Dispersible in water.
Specific Gravity:	1.53
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	N App
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N Av
% Volatile by Weight:	15 (water)
Solubility in water (g/L):	Dispersible
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	100 (water)
Decomposition Point (°C):	N Av
pH:	8.5
Viscosity:	N Av
Evaporation Rate:	N Av

## 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid exposure to frost.
Incompatible materials:	Incompatible with oxidising agents.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen.
Hazardous reactions:	Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	No adverse effects expected, however, large amounts may cause nausea and vomiting.
Eye contact:	May be an eye irritant.
Skin contact:	Contact with skin may result in irritation.

Product Name: PROSERIES FIREBLOCK  
Substance No: 000000021678

Issued: 10/06/2008  
Version: 1

# Safety Data Sheet



**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation.

**Long Term Effects:**  
No information available for the product.

**Toxicological Data:** No LD50 data available for the product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:**  
Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

## 14. TRANSPORT INFORMATION

### **Road and Rail Transport**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

### **Marine Transport**

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### **Air Transport**

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

**Classification:** Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

**Poisons Schedule:** None allocated.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

For further copies of this sheet or other product information contact Selleys Customer Service.

Phone: 1300 555 205 (Australia wide)  
Fax: 1300 555 305 (Australia wide)  
Phone: 9 820 4852 (New Zealand)  
Fax: 0800 804 583 (New Zealand)

**Reason(s) for Issue:**  
First Issue Primary MSDS

**Product Name:** PROSERIES FIREBLOCK  
**Substance No:** 000000021678

**Issued:** 10/06/2008  
**Version:** 1

# Safety Data Sheet



This safety data sheet has been prepared by SH&E Shared Services.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DuluxGroup Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.