



Technical Data Sheet

Proseries Fireblock

Updated
23/11/2010

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	+/- 25%	ISO 9046
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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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 4th 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	-/12/120
C	-/120/30
D	-/90/30
E	-/120/30
F	-/120/-
G	-/60/-

BWFA Report 2254400
Test Date 15th 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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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
Resistance to passage of flame	No failure at 241 minutes	No failure at 241 minutes
Insulation	128 minutes	125 minutes
Resistance to passage of water	No opening formed	No opening formed
Rating	F	F

EWFA Report 2505400.1
Test Date 10th 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
Resistance to passage of flame	No failure at 121 minutes	No failure at 121 minutes	No failure at 121 minutes
Insulation	28 mins	11 mins	12 mins
Resistance to passage of water	No opening formed	No opening formed	No opening formed
Rating	F	F	F

Cables

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

Joints

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

EWFA Report 2505300.1
Test Date 9th September 2010



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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 5th December 2007

WARNINGS/FIRST AID & SHIPPING

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



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