BlazeBrake™ Foam

Fire Protection Adhesives

Product Identifier **FRF700**

Product description

BlazeBrake™ Fire Rated Foam is a one component, expanding PU foam suitable for sealing construction joints and service penetrations. It prevents the penetration and transfer of flames, smoke and gases between building compartments.

Relevant building code clauses

C3 Fire affecting areas beyond the fire source

F2 Hazardous building materials - F2.3.1

Contributions to compliance

For C3 Fire affecting areas beyond the fire source, refer to the BlazeBrake™ Foam reports FCO2662, FCO2680-RevB & TDS listed in supporting documentation

For F2 Hazardous building materials refer to the BlazeBrake™ Foam SDS (Safety Data Sheet) listed in supporting documentation

Scope of use

BlazeBrake™ Fire Rated Foam is a one component, expanding PU foam suitable for sealing construction joints and service penetrations. It prevents the penetration and transfer of flames, smoke and gases between building compartments. BlazeBrake™ Fire Rated Foam reacts with moisture in the air causing it to expand to fill any shaped hole or cavity. The cured foam can then be cut, shaped and painted as desired.

Features and benefits:

- Fire rated to AS 1530.4:2014 for control joint systems (FCO-2662 Rev.A), 50% post expansion rate
- Suitable for sealing gaps around window and door frames
- Sound dampening, and sealing against draughts and moisture
- High bond strength
- Excellent dimensional stability
- Can be painted and covered with plaster
- Excellent thermal insulator CFC & HCFC free (ozone layer friendly)
- Low VOC

Conditions of use

BlazeBrake™ Foam should be applied by a skilled professional within the parameters stated in the specifications on the Ramset™ webpage and in the BlazeBrake™ data sheet/product brochure.

Supporting documentation The following additional documentation supports the above statements:

Title (type)	Version	URL
BlazeBrake™ Foam webpage (Design, Installation)		https://ramset.co.nz/product/blazebrake-foam/
BlazeBrake™ Foam joint report FCO-2662 (Certification, Test results)		https://ramset.co.nz/wp-content/uploads/2023/07/Ramset_testreport_FCO- 2662-Blazebrake-Joints.pdf
BlazeBrake™ Foam Data Sheet (Design, Installation, Maintenance)		https://cdn.ramset.com.au/wp-content/uploads/2023/07/ramset_FRF700_productbrochure_Blazebrake.pdf
BlazeBrake™ Foam VOC data sheet (Design)		https://cdn.ramset.com.au/wp-content/uploads/2023/07/Ramset_VOC_Blazebrake-Foam-VOC-Data-Sheet.pdf
CSIRO AS1530.4-2014 testing (Test results)		https://ramset.co.nz/wp-content/uploads/2023/07/Ramset_testreport_FCO- 2680-Rev.B-BlazeBrake-Foam-Metal-Pipe-Penetrations.pdf
BlazeBrake™ Foam Test Certificate (Certification, Test results)	FCO-2662	https://cdn.ramset.com.au/wp-content/uploads/2023/07/Ramset_testreport_BlazeBrake%E2%84%A2-Foam-Test-Certificate-FCO-2662-Joints.pdf
BlazeBrake™ Foam SDS		https://ramset.com.au/wp-content/uploads/2023/08/ramsetNZ_FRF700_SDS_BlazeBrake™-Foam.pdf

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Contact details	
Manufacture location	Overseas
Legal and trading name of manufacturer	Ramset™ Australia
Legal and trading name of importer	Ramset™ New Zealand
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Importer NZBN	9429039833129

Warnings and bans

This product line is not subject to any warning or ban under Section 26 of the Building Act 2004

Appendix - Building code performance clauses

All relevant building code performance clauses listed in this document:

F2 Hazardous building materials			
F2.3.1	The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.		
C3—Fire affecting areas beyond the fire source			
Provision		**Limit on application**	
Functional requirement			
C3.1	Buildings must be designed and constructed so that there is a low probability of injury or illness to persons not in close proximity to a fire source.		
C3.2	Buildings with a building height greater than 10 m where upper floors contain sleeping uses or other property must be designed and constructed so that there is a low probability of external vertical fire spread to upper floors in the building.	Clause C3.2 does not apply to importance level 1 buildings.	
C3.3	Buildings must be designed and constructed so that there is a low probability of fire spread to other property vertically or horizontally across a relevant boundary.		
C3.4	(a) materials used as internal surface linings in the following areas of buildings must meet the performance criteria specified below:	Clause C3.4 does not apply to detached dwellings, within household units in multi-unit dwellings, or outbuildings and ancillary buildings.	
Area of building		**Performance determined under conditions described in ISO 9705: 1993**	
		Buildings not protected with an automatic fire sprinkler system	**Buildings protected with an automatic fire sprinkler system**
	Wall/ceiling materials in sleeping areas where care or detention is provided	Material Group Number 1-S	Material Group Number 1 or 2
	Wall/ceiling materials in exitways	Material Group Number 1-S	Material Group Number 1 or 2
	Wall/ceiling materials in all occupied spaces in importance level 4 buildings	Material Group Number 1-S	Material Group Number 1 or 2
	Internal surfaces of ducts for HVAC systems	Material Group Number 1-S	Material Group Number 1 or 2
	Ceiling materials in crowd and sleeping uses except household units and where care or detention is provided	Material Group Number 1-S or 2-S	Material Group Number 1 or 2
	Wall materials in crowd and sleeping uses except household units and where care or detention is provided	Material Group Number 1-S or 2-S	Material Group Number 1, 2, or 3
	Wall/ceiling materials in occupied spaces in all other locations in buildings, including household units	Material Group Number 1, 2, or 3	Material Group Number 1, 2, or 3
	External surfaces of ducts for HVAC systems	Material Group Number 1, 2, or 3	Material Group Number 1, 2, or 3
	Acoustic treatment and pipe insulation within airhandling plenums in sleeping uses	Material Group Number 1, 2, or 3	Material Group Number 1, 2, or 3

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	(b) floor surface materials in the following areas of buildings must meet the performance criteria specified below:		
Area of building		**Minimum critical radiant flux when tested to ISO 9239-1: 2010**	
		Buildings not protected with an automatic fire sprinkler system	**Buildings protected with an automatic fire sprinkler system**
	Sleeping areas and exitways in buildings where care or detention is provided	4.5 kW/m2	2.2 kW/m2
	Exitways in all other buildings	2.2 kW/m2	2.2 kW/m2
	Firecells accommodating more than 50 persons	2.2 kW/m2	1.2 kW/m2
	All other occupied spaces except household units	1.2 kW/m2	1.2 kW/m2
Provision		**Limit on application**	
	(c) suspended flexible fabrics and membrane structures used in the construction of buildings must have properties resulting in a low probability of injury or illness to persons not in close proximity to a fire source.		
C3.5	Buildings must be designed and constructed so that fire does not spread more than 3.5 m vertically from the fire source over the external cladding of multi-level buildings.		
C3.6	Buildings must be designed and constructed so that in the event of fire in the building the received radiation at the relevant boundary of the property does not exceed 30 kW/m2 and at a distance of 1 m beyond the relevant boundary of the property does not exceed 16 kW/m2.		
C3.7	External walls of buildings that are located closer than 1 m to the relevant boundary of the property on which the building stands must either:		
	(a) be constructed from materials which are not combustible building materials, or		
	(b) for buildings in importance levels 3 and 4, be constructed from materials that, when subjected to a radiant flux of 30 kW/m2, do not ignite for 30 minutes, or		
	(c) for buildings in Importance Levels 1 and 2, be constructed from materials that, when subjected to a radiant flux of 30 kW/m2, do not ignite for 15 minutes.		
C3.8	Firecells located within 15 m of a relevant boundary that are not protected by an automatic fire sprinkler system, and that contain a fire load greater than 20 TJ or that have a floor area greater than 5,000 m2 must be designed and constructed so that at the time that firefighters first apply water to the fire, the maximum radiation flux at 1.5 m above the floor is no greater than 4.5 kW/m2 and the smoke layer is not less than 2 m above the floor.		
C3.9	Buildings must be designed and constructed with regard to the likelihood and consequence of failure of any fire safety system intended to control fire spread.		

For further information, please contact Ramset™
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