



FULAFOAM FIRE RESISTANT EXPANDING FOAM

Description

FulaFoam Fire Resistant with CFC-free propellant is a B1-rated, single-component, self expanding, ready to use polyurethane foam with propellants which are completely harmless to the ozone layer. It is fire resistant and blocks harmful combustion gases from spreading.

IMPORTANT

Fulafoam Fire Resistant expanding foam has strong adhesion to almost any surface, including skin and eyes. Wear rubber gloves and goggles before and during use. Protect all surfaces around the work area, as Fulafoam Fire Resistant expanding foam cannot easily be removed.

Standards Compliance

Fulafoam FR has been tested to achieve up to three (3) hour fire rating when assessed in accordance with AS1530.4 – 2014. With FRL's being subject to building element type, element thickness and orientation, advice should be sought concerning the suitability of Fulafoam FR in specific applications. Refer to hbfuller.com.au for assessment.

Performance Summary

Colour	Light Pink
Skinning time	12-16 minutes @ 23C / 50%RH
Cutting Time (30mm bead)	30-40 minutes @ 23C/50% RH
Cure Rate (23C)	~18 hours max
Cure Rate (-5C)	~24 hours max
Density	25-30kg/m3
Flash Point (cured film)	400C
Tensile Strength (BS 5241)	10 N/cm2
Compression Strength at 10% (DIN 53421)	4 N/cm2
Thermal Conductivity	0.03 W/m2K
Service temperature	-50°C until +90°C when cured
Curing system	Moisture cure

Compatible Substrates

Concrete	Wood
Mortar	Plasterboard
Fibreglass	Cement sheet
MDF	Particleboard
Steel	Aluminium

Note: Substrates are listed indicating their compatibility regarding adhesion, while the list does not indicate that substrates have been fire tested – Refer to assessment to determine suitability if a fire resistance level (FRL) is required.

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Benefits

- B1-rated fire-retardant foam
- Fire-rated up to 3 hours (AS1530.4-2014)
- Efficient seal against smoke and gas
- Does not contain CFC's and H-CFC's
- Excellent adhesion on most substrates (except Teflon, PE and PP)
- High thermal and acoustical insulation
- High bonding strength
- Very good filling characteristics
- Can be painted after full cure
- Fills cavities without shrinking

Uses

- Fire resistant installation of window and door frames
- Fire and smoke retardant sealing of connections between partition walls, ceilings and floors
- Filling of cavities
- Applications where fire retardant characteristics are required such as:
- Sealing of all openings in roof constructions
- Sealing of cable- and pipe penetrations
- Creation of a sound-proof screen
- Bonding of insulation materials
- Application of sound-deadening layers
- Improving thermal insulation in cold store area's

Yield per can

A full can will expand to approximately 30 litres of foam, if used strictly according to directions.

Standards Compliance and Fire Test Results (EWFA 42676600)

Minimum Wall Thickness (mm)	Joint Dimension (mm)	Backing material	Flame resistance in minutes	Likely fire resistance (in accordance with AS1530.4-2014 and AS4072-2005, vertical)
100	Width: 40 Depth: 100	None	181	-/180/-
100	Width: 20 Depth: 100	None	181	-/180/30
100	Width: 10 Depth: 100	None	181	-/180/60
200	Width: 40 Depth: 200	None	181	-/180/120
200	Width: 20 Depth: 200	None	181	-/180/180
200	Width: 10 Depth: 200	None	181	-/180/180

Surface Preparation

All surfaces must be clean, sound and free from dust, grease, oil and contamination. High humidity and dampness will aid the expansion of the foam. However, the surfaces should not be wet. Spraying a fine mist of water into the cavity will aid expansion of the foam.

Application

Ensure that the temperature is greater than 5°C and below 30°C. Shake can at least 20 times before each use to ensure that contents are mixed. Screw trigger and nozzle onto the can. To inject the foam, turn the can upside down and direct nozzle into the cavity. Press trigger to release foam.

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When filling large cavities, do not empty the whole can at once. Fill in stages, allowing the foam to expand between each stage. Using the whole can at once will cause:
Failure of the foam in the middle of the mass to expand, resulting in reduced yield
Too much foam may be injected. The pressure from the expanding foam may cause damage to the walls of the cavity.

Inject the foam for between 15 to 20 seconds. Depending on conditions, the foam should skin in 12-16 minutes. After it has skinned, spray a fine mist (not a puddle) of water onto the foam. Inject the next layer of foam. Repeat until the cavity is $\frac{1}{3}$ to $\frac{1}{2}$ filled. Fulafoam Fire Resistant expanding foam will expand to approximately three times the extruded volume. Trim cured foam using a saw, knife, rasp or sandpaper. Finish with polyester, acrylic or masonry filler, to produce a neat and tidy finish. Paint with an exterior grade acrylic.

Curing

Time to cure is highly variable and depends on weather conditions, ambient temperature and depth of joint.

Clean Up

Surfaces surrounding the job area should be protected from accidental contact with Fulafoam Fire Resistant expanding foam. Clean up uncured foam immediately with acetone. Cured material is very difficult to remove. Sanding or other mechanical means will remove most of the foam. If on skin, wash with an abrasive soap. Any remaining residue will wear off with time.

Painting

Fulafoam Fire Retardant expanding foam is paintable when cured. Painting is recommended for exterior applications.

Shelf Life

12 months unopened from date of manufacture. If open, use within 48 hours.

Limitations

- Ensure that the air temperature is above 5°C and below 30°C
- FulaFoam Fire Resistant expanding foam is not water proof and not suitable for immersion
- Do not use where foot or vehicular traffic is expected
- Cured foam must be protected from UV radiation by painting
- Fill cavities only partly as foam will continue to expand during the cure time
- Do not have sparks or flames near curing FulaFoam Fire Resistant foam
- Will not adhere to PE or PP plastics

Safety Information

This product is classified Hazardous according the Globally Harmonised System of Classification and labelling of Chemicals (GHS), including Work, Health and Safety regulations, Australia. Avoid contact with skin and eyes. Store in a dry place below 30°C. Keep out of reach of children. A MSDS is available from the H.B. Fuller representative in your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, www.hbfuller.com.au. For Poisons Information Centre phone 13 11 26.

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TECHNICAL DATA SHEET

技术资料

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Disclaimer

This technical data sheet summarises at the date of issue to the best technical knowledge of HB Fuller Australia. Since HB Fuller Australia cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this technical data sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request

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