

## 1. PRODUCT IDENTIFICATION AND COMPANY DETAILS

**Product Name:** FIRESOUND™  
**Other Names:** Sealant

**Manufacturer's Code:** Not applicable / None  
**UN Number:** Non allocated  
**Packaging Group:** Not required

**Supplier:** HB Fuller Company Australia Pty Ltd  
**ABN:** 37 003 638 435  
**Street Address:** 16-22 Red Gum Drive  
Dandenong South Vic 3175  
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## 2. DESCRIPTION, BENEFITS & APPLICATION INSTRUCTIONS

**Description:** FIRESOUND™ sealant is an acrylic based sealant, formulated primarily to perform as barrier to the incursion of fire through expansion joints. FIRESOUND™ sealant is also an effective acoustic sealant.

✓ **Recommended Use:** Sealing: exterior and interior construction joints that are subject to movement (up to ±20%) in pre-cast concrete panels, blockwork and brickwork • gaps around cables, metal pipes, conduits, busways and ducts that penetrate walls, floors and ceilings • if joint movement is not required, FIRESOUND™ sealant can be used as a putty for filling holes in fire rated substrates

**Substrates:** Concrete • mortar • plasterboard • cable coverings (PVC) • steel • aluminium

### Benefits:

- Fire rating for gaps up to 50mm.
- Good UV & weather resistance
- Good flexibility – joint movement ± 20%
- Paintable
- One part – no mixing
- Excellent Acoustic properties
- Very easy to apply and gives a smooth finish
- Low odour
- Non-toxic – contains no heavy metals such as antimony, cadmium, lead or mercury
- Contains no isocyanates
- Asbestos free
- Intumescent, expands when exposed to fire or heat above 90°C
- Priming not normally required
- Can be applied to damp surfaces
- Water clean up

## 2. DESCRIPTION, BENEFITS & APPLICATION INSTRUCTIONS continued

### Standards Compliance

FIRE SOUND™ sealant has a four (4) hour fire rating when tested in accordance with AS1530.4 – 1990 supplemented by AS4072.1 – 1992 as well as BS476: part 20; 1987 and as appropriate on a gap-sealing system protecting joints between concrete panels. Due to variations in fire rating results using different thicknesses and types of substrates, advice should be sought concerning the suitability of FIRE SOUND™ in specific applications. FIRE SOUND™ has been tested in accordance with AS1276.1 and found to perform as an excellent acoustic sealant with Sound Transmission Class (STC) 65 rating in a wall constructed using 2 leaves of aerated concrete plus plasterboard facings. In tests involving 10mm joints in brick walls, Sound Insulation Rating of  $R_w + C_{tr}$  49 was achieved in a 220mm brick wall, and  $R_w + C_{tr}$  55 in a 220mm brick wall with plasterboard facing. However as acoustic performance is determined according to the type and dimension of substrates, advice should be sought regarding the overall design concept. See technical data at the end of this TDS for acoustic test performance details.

### Surface Preparation:

All surfaces must be clean, sound and free from dirt, grease or other contaminants. Ideally surfaces should be dry. FIRE SOUND™ sealant will adhere to slightly damp surfaces, but avoid wet surfaces. Areas adjacent to joints may be masked to provide a neat finish. Masking should be removed immediately after tooling. Ensure FIRE SOUND™ is applied to sealed edges of plasterboard. Unsealed edges (with no primer) may lead to a weak bond being formed and / or loss of acoustic performance.

### Priming

Should priming be needed to seal edges or increase adhesion then Fullers Express 290D primer should be used. A coat should be brushed on and left to dry before FIRE SOUND™ is applied. Priming is recommended for porous or difficult to clean surfaces.

### Application

Apply FIRE SOUND™ in ambient conditions between 5 and 35 degrees centigrade. Higher temperatures should be avoided to prevent the possibility of bubbling of the sealant due to rapid moisture evaporation. Do not apply below 5 degrees centigrade. Fill joint with trowel or caulking gun, then tool off with a spatula and clean off excess with a damp cloth. Protect from water for at least 24 hours until a suitable skin has cured (will require significantly longer at temperatures below 15 degrees centigrade). All joints should be filled to required depth with backer rod or bond breaker tape prior to sealant application. Some shrinkage is normal during curing, and should be anticipated when measuring joints.

### Design Factors:

The maximum designed movement must not exceed  $\pm 20\%$  of the joint width. Sealant should be applied using a width to depth ratio of at least 2:1. If joint movement is not required FIRE SOUND™ sealant can be used as putty. Joints up to 50mm wide can be sealed.

### Painting

FIRE SOUND™ sealant is suitable for painting when cured. To minimize paint cracking, at least 24 hours should be left before painting where possible. In standard conditions (25 degrees centigrade) FIRE SOUND™ may be painted after 6 hours, however, care should be taken to ensure a flexible acrylic coating is used and that a firm skin has developed. In cooler conditions or where the humidity is high, allow a longer cure period before painting.

## 2. DESCRIPTION, BENEFITS & APPLICATION INSTRUCTIONS continued

### Coverage

Yield: Approximate metres per litre of FIRESOUND™ sealant as per table.

Joint Depth mm	Joint Width mm				
	10	20	30	40	50
10	10	5	-	-	-
15	-	-	2	1.6	-
20	-	-	-	1.25	1.0
25	-	-	-	-	0.8

### Cure Time:

Time to cure is highly variable and depends on weather conditions, ambient temperature and depth of joint. Allow longer curing times in cold or damp conditions.

Do not allow water contact until at least a thick surface has formed.

### Limitations:

- Do not apply to wet surfaces.
- FIRESOUND™ sealant may be used both for interior and exterior sealing, but not suitable for use in water retaining structures or where ponding may occur.
- FIRESOUND™ sealant has good servicing characteristics when unprotected in internal applications.
- For external use, FIRESOUND™ sealant must be protected from rain or water, until such time as the sealant builds up a thick skin to avoid washout. Therefore do not apply sealant when rain exposure is likely, or before a thick skin can develop. This is typically 24 hours in summer (25 to 30 degrees C), but will be significantly longer in winter, or at times of high humidity

### Clean Up:

After applying FIRESOUND™ sealant, clean all tools and metal surfaces with warm water while the sealant is still wet. Cured sealant will need to be removed mechanically.

### Shelf Life:

Do not store containers below 5°C, or above 32°C or in direct sunlight. When stored correctly in unopened containers FIRESOUND™ sealant will last 12 months.

### Pack Sizes:

- 450g (~290mL) cartridge
- 925g (~600mL) sausage
- 15.4kg (~10L) pail

## 3. HAZARD INFORMATION

FIRESOUND™ sealant is not classified as hazardous according to criteria of Worksafe Australia. However, sound industrial hygiene procedures should be followed. Ensure adequate ventilation during use. Avoid skin and eye contact.

KEEP OUT OF REACH OF CHILDREN

A Material Safety Data Sheet is available from the H.B. Fuller representative or agent in your state. For Poisons Information Centre phone AUSTRALIA 13 11 26, NZ 0800 764 766.

#### 4. OTHER INFORMATION

Safety Data Sheets are regularly updated. Please ensure that you have the most recent edition. Please contact FULLER on 1800 423 855 for further Technical Data Sheets or for a Material Safety Data Sheet.

Property	Data
Colour	Grey
Appearance	Thick heavy paste
Specific gravity	1.5 +/-0.1
Viscosity	1.0-1.2 million cP
Tack free time	@ 25°C 30 minutes
Working time	@ 25°C 15 minutes
Joint movement capability	± 20%
Durometer (Shore A)	25-35
Service Temperature Range	-20 to +80°C

#### Schedule of Acoustic Test Configurations and Results Summary AS1276.1

Test no.	Wall	Gap	Notes	STC	Rw	Ctr	Rw + Ctr
2	110 brick wall	Firesound	Standard Brick	45	45	-4	41
5	220 brick wall	Firesound	Standard Brick	54	54	-5	49
14	220 brick wall	blocked	Standard Brick & Plasterboard	71	66	-11	55

This Technical Data Sheet summarises at the date of issue to the best of the knowledge of FULLER, the Technical information of the product and in particular, how to safely handle and use the product in the workplace. Since HB Fuller Company Australia Pty Ltd 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.