



# FILL & FIX PU FOAM

Issue – FFHH/0802

**EXCELLENT THERMAL AND  
ACOUSTIC INSULATION**

**RAPID HARDENING  
FILLER & ADHESIVE**

**HIGH EARLY BOND STRENGTH  
TO MOST MATERIALS**

## DESCRIPTION:

FILL & FIX FOAM is a one component PU foam containing Di-phenyl-methane Di-isocyanate, which reacts rapidly on contact with moisture to form a multi-purpose, expansive filling compound with very high early adhesion strength. Ideally suited for repairing gaps around interior wall cavities adjacent to window and door frames, helping to firmly anchor them within the wall structure, whilst at the same time retaining the insulation properties in the surrounding cavities. This versatile filler readily is released by activating the aerosol mechanism and controlling fingertip pressure will regulate the volume released from the inverted can. FILL & FIX FOAM can be used in interior and exterior applications and demonstrates excellent adhesion when applied to a surface, which has been lightly dampened before contact with foam. FILL & FIX FOAM has shown excellent long-term adhesion to a range of different building materials such as bare, painted or varnished wood, wall plaster, plasterboard, brickwork, concrete block-work, roof tiles, corrugated sheeting, timber frames, steelwork, floorboards, skirting edges, architraves and PVCu window frames.

## PREPARATION:

Ensure all repair areas voids and contact surfaces are dry, clean and free from dirt, grease and loose surface coatings. Do not apply to gaps where there is likely to be movement in excess of +/- 5% of the joint width. Moisten the contact surfaces with a fine spray mist of water to improve both adhesion and curing time. Insufficient air or substrate moisture may prolong curing time. Protect untreated surfaces and surrounding areas from accidental contact with foam as unintended spillages will be difficult to remove.

## APPLICATION:

Immediately prior to use ensure all protective clothing and gloves are worn and then vigorously shake the FILL & FIX FOAM can. Remove the safety cap, screw on the applicator nozzle and before pressing to extrude ensure the can is always held in the INVERTED position to maximise foam output and yield. Fill narrow cavities sparingly as extruded foam will expand by up to 150% of its originally place volume before curing and hardening is complete. Large joints or gaps (> 50mm) should be filled in consecutive layers of foam, allowing a short time for each layer to cure before proceeding with the next. The foam should be left for 24 hours before any covering, painting or plastering is attempted. Cleaning of the can and surrounding areas can be completed only with a suitable PU solvent, which is usually ACETONE based. This should be carried out promptly before the foam has had chance to cure and harden. Cured foam can only be removed by mechanical means.

## COVERAGE & SIZE RANGE:

FILL & FIX FOAM will give a fully free expanded yield of about 27 litres per 750ml can, or about 18 litres per 500ml can. FILL & FIX FOAM is also supplied in cans for use with the FOAM APPLICATOR GUN to give greater control over the products' application in narrow apertures and ensure more economic use with less wastage is achieved. The GUN GRADE FILL & FIX FOAM is also supplied with GUN CLEANER AEROSOLS to allow the applicator guns to be flushed through with acetone after use thus preserving their working life and preventing waste and blockages.

## HEALTH & SAFETY:

FILL & FIX FOAM contains less than 50gm / 750ml of CFC free butane propellant and is classified as EXTREMELY FLAMMABLE and HARMFUL in accordance with the CHIP 3 regulations. The product should always be kept out of reach of children and animals when being applied and whilst in the semi-cured state. Protective clothing, adequate ventilation (or in confined rooms respiratory equipment) must always be available prior to use. Do not expose the container to direct sunlight, temperatures above 50°C or allow it to be stored in warm, unventilated environments.

## TECHNICAL SUMMARY:

TACK-FREE TIME	CUTTING TIME	CURED DENSITY:	APPLICATION TEMPS:	ISOLATION VALUE	SERVICE TEMPS
8 – 12 mins	2 to 3 hours	20 – 30 Kg/M3	+5°C up to 35°C	25-30 mW/(m.K)	- 40°C TO 90°C

## STORAGE & PACKAGING:

FILL & FIX FOAM is supplied in standard cartridges (25 per case) and has a storage life of not less than 12 months if kept in dry, un-opened conditions.

Consult the FILL & FIX FOAM material safety data sheet for advice on handling and safety procedures.

Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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SUBSTANCE IDENTIFICATION:			
<b>PU FIX n FOAM</b>			
<b>COMPOSITION:</b> DPM 4,4, Isocyanate - < 10% Propane - < 5% Isobutane - < 5% Butane - < 5% Dimethyl Ether - < 10%		<b>HAZARDS CLASSIFICATION: EXTREMELY FLAMMABLE. HARMFUL</b> <b>Irritating to eyes; skin and respiratory tract.</b> <b>May cause sensitisation by skin contact &amp; inhalation.</b> Keep out of reach of children Keep away from sources of ignition – No smoking. If swallowed do not induce vomiting – seek medical assistance. Do not breathe vapour. Avoid contact with skin and eyes.	
FIRST AID MEASURES:			
<b>INHALATION:</b> Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.	<b>SKIN CONTACT:</b> Wash off skin with warm soapy water. Remove contaminated clothing and launder regularly. Prolonged and unattended contact should be avoided. Where irritation to skin is apparent seek medical attention.	<b>INGESTION:</b> Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.	<b>EYE CONTACT:</b> Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.
FIRE FIGHTING MEASURES:			
Recommended extinguishers – Dry powder; Foam, CO2 – Do not use water jets. Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes. Special procedures – Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product – RISK of exploding aerosol cans.			
ACCIDENTAL RELEASE MEASURES:			
Ventilate area and eliminate all sources of ignition. Absorb and scrape spillages onto sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations. Protective Equipment section for advice when handling spillages.			
HANDLING & STORAGE:			
Handling: Ensure adequate ventilation and use all recommended personal protective equipment Storage: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool well ventilated environment preferably within a lockable metal cabinet.			
EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT:			
<b>MEL:</b> 0.02mg/M3 for 8hr TWA or 0.07mg/M3 for 15 min TWA for Diphenyl Methane 4 4 Di-Isocyanate; <b>OES:</b> 600ppm (8hr) or 750ppm (15min) for Butane; 400ppm (8hr) or 500ppm (15min) for Di-Methyl Ether. Good ventilation is necessary when in use. Wear overalls, goggles and Iso-cyanate rated rubber/PVC gloves and boots. PVC overalls should be worn and laundered immediately after use. Notify persons in the vicinity of any treatment as to when product is in use and advise necessary precautions.			

## SAFETY DATA SHEET No. 70 – issue date 29-01-02

### PRODUCT: POLYURETHANE FIX n FOAM

PHYSICO-CHEMICAL PROPERTIES:	
Appearance – Straw paste in an aerosol can Boiling point range – n/a Water solubility – hardens in contact Auto ignition temp – n/a Specific gravity - < 0.2 when cured. Miscibility – solvents (acetone) – not water.	Vapour pressure – n/a Odour – hydrocarbon gas propellant. Flash point - < 20°C – EXTREMELY FLAMMABLE Vapour pressure (air =1) – N/A Viscosity < n/a Flammability – n/a
STABILITY & REACTIVITY:	
Stable – No dangerous chemical reactions known – hazardous polymerisation will not occur. Hazardous decomposition when burnt – emits toxic gases; ammonia; nitrous oxides and HCN	
TOXICOLOGICAL INFORMATION:	
Routes of exposure – Inhalation, skin contact and ingestion. Health effect – prolonged inhalation may cause headaches and respiratory distress. Acute effects of inhalation – coughing and eyes watering. Acute effects of skin contact – redness, irritation and sensitisation.	
ECOLOGICAL INFORMATION:	
Bio-accumulative potential – negligible (no data available). Ecotoxicity: N/A Environmental Persistence – No data available	
DISPOSAL CONSIDERATIONS:	
Dried residues are non-hazardous and non-flammable. Unused or part used cans must be considered flammable and disposed of in accordance with local authority regulations for flammable liquids / paints.	
TRANSPORT INFORMATION:	
UN/SI No. 1950; IMO Class 2; Packing Group II; Proper shipping name - AEROSOLS. IATA / IACO: Class 2; Packing Group II; ADR / RID Class 2; Item 5 ( f ), ADR label No. 3 Transport Name (UK Road) – Aerosol; hazard class (ADR) 2.1 Flammable gases MFAG Table No. 620; Ems No. 2 - 13	
REGULATORY INFORMATION:	
<b>CHIP Hazard symbols: R20; R36/37/38; R42/43 – Extremely Flammable; Harmful Xn</b> <b>Contains Isocyanates – consult manufacturers information.</b> Safety phrases: S2 – S26 – S28 – S38 – S45 – S51 – S37/39. <b>Other regulatory controls:</b> Health & Safety @ Work Act 1974; Control of Substances Hazardous to Health Regulations 1994. Environmental Protection Act 1990.	
FURTHER INFORMATION:	
The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work.	