

## EVERBUILD FILL AND FIX/GUN GRADE EXPANDING FOAM

### DESCRIPTION

EVERBUILD FILL AND FIX/GUN GRADE EXPANDING FOAM are quick setting one part polyurethane foams in aerosol form. The FILL AND FIX version is supplied with attachable nozzles and GUN GRADE is supplied for use with our range of applicator guns.. The foam expands on application to up to 50 times its original volume and expands on application by 150%. Once cured, the foam can be cut, sawn or plastered over after only one hour providing the working temperatures (can and surfaces) are between +5 to +25°C, ideally 20°C.

### BENEFITS

- Quick setting - can be cut, sawn or plastered in 1 hour.
- Economical in use - expands up to 50 times its original volume.
- Fills irregular and broad gaps where most conventional fillers would fail.
- Possesses insulating and sound deadening properties.

### AREAS FOR USE

#### Filling

- gaps around pipe entries through walls.
- gaps around window frames, door frames.
- electrical wire chasing prior to plastering
- deep joints prior to applying sealant or plaster
- irregular gaps in stone, brick, concrete or plaster

#### Fixing

- door frames
- timber structures
- window sills and thresholds.
- Window frames

#### Insulating

- behind cladding to exterior walls.
- behind soffit and barge boards
- in automotive applications.

### LIMITATIONS

TECHNICAL DATA SHEET NO: 014  
PAGE: 2 OF 4

VERSION: 2/1<sup>ST</sup> MARCH 1999  
DATE OF ISSUE:22/9/05

- Carefully read instructions and text in warning box before use.
- Do not over pressurise container.
- Always apply above 5°C.
- Clean spills immediately with EVERFLEX FOAM CLEANER.
- When using GUN GRADE, always clean the gun thoroughly with EVERFLEX FOAM CLEANER until the jet is clear of foam. Leave the canister attached until the gun is to be used again
- When using FILL AND FIX FOAM, always remove nozzle from can and clean immediately after use with EVERFLEX FOAM CLEANER
- For fire rated joints, use EVERFLEX FIREFOAM B1 in conjunction with EVERFLEX NILFLAM 90 intumescent sealant.
- Once cured, dry foam must be removed mechanically. No solvent will remove the product.

#### **SURFACE PREPARATION**

Ensure all surfaces are clean, sound and free from dust and loose particles. **Moisten surfaces to be sealed with water. This assists the curing process.**

#### **APPLICATION**

**ALWAYS WEAR PROTECTIVE GLOVES.**

Shake can well before use (about 20 times).

For the FILL AND FIX PRODUCT, carefully fix nozzle. Do not overtighten or force.

**ALWAYS USE CAN UPSIDE DOWN.** For GUN GRADE, tighten securely into one of our range of guns.

Only partially fill cavities as the foam will expand to fill the remaining space. Any excess foam can be removed whilst still wet with EVERFLEX FOAM CLEANER. Cured foam must be removed mechanically.. When used for fixing door frames, supports must be used until the foam is fully cured.

#### **SPECIFIC DATA**

|  |   |
|--|---|
| YIELD (free expansion/bulk density 19kg/m <sup>3</sup> ) | 37 litres (750ml can) 25 litres (500ml can) |
| RAW DENSITY  | 37kg/m <sup>3</sup> (confined space)        |

|                             |   |
|-----------------------------|---|
| CELL STRUCTURE              | Medium fine   |
| TACK FREE                   | Approx. 8 minutes                                   |
| CUTTABLE                    | 20 mins to 1 hour depending on bead dimensions.     |
| FULL LOAD BEARING STABILITY | App, 12 hours (20mm bead)                           |
| WORKING TEMPS               | 5°C - 25°C. (Optimum 20°C).                         |
| TENSILE STRENGTH            | 18N/cm <sup>2</sup> (DIN 53455)                     |
| ELONGATION AT TENSION       | 30% (DIN 53455)                                     |
| SHEAR STRENGTH              | 8N/cm <sup>2</sup> (DIN 53422))                     |
| FLEXURAL STRENGTH           | 20N/cm <sup>2</sup> (DIN 53423)                     |
| COMPRESSIVE STRENGTH        | 5N/cm <sup>2</sup> (DIN 53421) at 10% stress.       |
| WATER ABSORPTION            | 0.3 Vol % (DIN 53428)                               |
| THERMAL CONDUCTIVITY        | 0.04 W/Mk (DIN 52612)                               |
| TEMP RES. OF CURED BEAD     | Long Term: -40 - +100°C<br>Short Term: -40 - +130°C |
| BUILDING MATERIAL CLASS     | B3 (DIN 4102, Part 1)                               |

## HEALTH AND SAFETY

Handle container with care. Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation. May form flammable/explosive mixtures with air. Do not breath vapour/spray. Use only in well ventilated areas. Keep out of reach of children. During use, keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves/eye/face protection. If swallowed, seek medical advice and show this container label. In case of accident or if you feel unwell, seek medical advice immediately (show container label).

TECHNICAL DATA SHEET NO: 014

PAGE: 4 OF 4

Contains Isocyanate. See information supplied by manufacturer.

VERSION: 2/1<sup>ST</sup> MARCH 1999

DATE OF ISSUE:22/9/05

### **STORAGE**

Store upright between 20 and 25°C Pressurized container. Protect from sunlight and do not expose to temperatures above 50°C. Do not pierce or burn the can even after use. Store as flammable liquid.

Note: Elevated temperatures will reduce shelf life dramatically.

### **SHELF LIFE**

12 months in original containers at stated storage temperatures.

**SAFETY DATA SHEET**  
FILL AND FIX EXPANDING FOAM

Page 1  
Issued: 05.08.2004  
Revision No: 3

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** FILL AND FIX EXPANDING FOAM

**Product code:** EVFF5/7, EVGF7

**Use / description of product:** Highly flammable or extremely flammable. Harmful.

**Company name:** EVERBUILD BUILDING PRODUCTS LTD

SITE 41, KNOWSTHORPE WAY

CROSS GREEN INDUSTRIAL ESTATE

LEEDS

WEST YORKSHIRE

LS9OSW

ENGLAND

Tel: 0044 113 240 3456

Fax: 0044 113 240 0024

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** DIMETHYL ETHER 1-10%

EINECS: 204-065-8 CAS: 115-10-6

[F+] R12

- DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 10-30%

EINECS: 202-966-0 CAS: 101-68-8

[Xn] R20; [Xi] R36/37/38; [Sens.] R42/43

**3. HAZARDS IDENTIFICATION**

**Main hazards:** Extremely flammable. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

**4. FIRST AID MEASURES (SYMPTOMS)**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. Remove/soften cured foam from skin with petroleum jelly or via constant softening with hot soapy water

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

[cont...]

## SAFETY DATA SHEET

### FILL AND FIX EXPANDING FOAM

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

**Exposure hazards:** Extremely flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Do not use equipment in clean-up procedure which may produce sparks. Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition. Store in original containers between +5 and +25°C. Storage outside these parameters will dramatically reduce shelf life and invalidates all product warranties.

**Suitable packaging:** Must only be kept in original packaging.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hazardous ingredients:** DIMETHYL ETHER

TWA (8 hr exposure limit): 766 mg/m<sup>3</sup> STEL (15 min exposure limit): 958 mg/m<sup>3</sup> (OES)

- DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

TWA (8 hr exposure limit): 0.02 mg/m<sup>3</sup> STEL (15 min exposure limit): 0.07 mg/m<sup>3</sup> (OES)

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Gas/vapour filter, type A: organic vapours (EN141). must be worn if vapour concentration is above OES or if ventilation is poor Self-contained breathing apparatus must be available in case of emergency.

**SAFETY DATA SHEET**  
FILL AND FIX EXPANDING FOAM

- Hand protection:** Impermeable gloves.  
**Eye protection:** Safety glasses. Ensure eye bath is to hand.  
**Skin protection:** Impermeable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- State:** Aerosol  
**Colour:** Yellow  
**Odour:** Barely perceptible odour  
**Solubility in water:** Insoluble  
**Viscosity:** Highly viscous  
**Flash point°C:** -4

**10. STABILITY AND REACTIVITY**

- Stability:** Stable under normal conditions. Stable at room temperature.  
**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.  
**Materials to avoid:** Strong oxidising agents. Strong acids.  
**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen cyanide.

**11. TOXICOLOGICAL INFORMATION**

- Hazardous ingredients:** DIPHENYLMETHANE-4,4'-DI-ISOCYANATE  
ORL MUS LD50 2200 mg/kg  
ORL RAT LD50 9200 mg/kg  
**Chronic toxicity:** May cause sensitisation by inhalation. May cause sensitisation by skin contact. Contains substance with uncertain carcinogenic properties (polymethylenpolyphenylisocyanate)  
**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

- Mobility:** VOC 20% w/w  
**Persistence and degradability:** No data available.  
**Bioaccumulative potential:** No data available.  
**Other adverse effects:** Negligible ecotoxicity. Not dangerous to ozone layer (1999/45/EC)

**13. DISPOSAL CONSIDERATIONS**

- Disposal operations:** Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J L47 of 16/2/2002):  
08 05 01 (waste isocyanates)  
**Disposal of packaging:** Waste material code packaging (91/689/EEC); Council decision 2001/118/EC, O.J L47 of  
16/2/2001) 15 01 10 (packaging containing residues of or contaminated by dangerous  
substances)  
**NB:** The user's attention is drawn to the possible existence of regional or national regulations  
regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** 1950 **ADR Class:** 2  
**Classification code:** 5F  
**Shipping name:** AEROSOLS  
**Labelling:** 2.1

**IMDG / IMO**

**UN no:** 1950 **Class:** 2  
**EmS:** F-D,S-U **Marine pollutant:** .  
**Labelling:** 2.1

**IATA / ICAO**

**UN no:** 1950 **Class:** 2  
**Labelling:** 2.1

**15. REGULATORY INFORMATION**

**Hazard symbols:** Extremely flammable.  
Harmful.



**Risk phrases:** R12: Extremely flammable.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R42/43: May cause sensitisation by inhalation and skin contact.

**Safety phrases:** S23: Do not breathe vapour.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S51: Use only in well-ventilated areas.  
S2: Keep out of the reach of children.  
S16: Keep away from sources of ignition - No smoking.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Precautionary phrases:** Contains isocyanates. See information supplied by the manufacturer.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.



**SAFETY DATA SHEET**  
FILL AND FIX EXPANDING FOAM

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Risk phrases used in s.2:** R12: Extremely flammable.  
R20: Harmful by inhalation.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R42/43: May cause sensitisation by inhalation and skin contact.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.