

Webbflex B1 PU Foam

Fire Rated Expanding Polyurethane Foam

Features & Benefits

- Conformance: DIN4102 Part 1, Class B1BS476 Part 20 (Report TE201142)
- Fills irregular gaps
- Adheres firmly to most building materials
- Seals around pipework
- Insulates against noise, heat or cold
- Prevents transmission of smoke
- CFC free



Description

Webbflex B1 Fire Rated Expanding PU Foam is a modified one component polyurethane foam for the filling / sealing of joints and gaps requiring fire rated properties. The foam expands rapidly after dispensing and quickly cures to a fine honeycomb structured foam by reacting with atmospheric moisture. The cured product meets Class DIN4102, Part 1, Class B1 and can provide over 2 hours fire resistance in linear joints when tested to BS 476 Part 20. It has excellent thermal and acoustic insulation properties and forms a strong bond to most construction materials. The propellant used has no ozone depleting potential. The product is supplied in pressurised aerosol canisters in both Gun and Nozzle grades.

Technical Information

| | |
|-----------------------------------------------------|-----------------------------------------------------------------|
| Type | Modified polyurethane |
| Cure System | Moisture reactive |
| Building Material Class | DIN4102, Part 1, Class B1 |
| Fire Resistance | (160 minutes 20 x 210 joint) BS476 Part 20 (Report TE201142) |
| Thermal Conductivity | 0.04 W/(m.K) |
| Acoustic Damping | 58 dB maximum limit |
| Compression Stress @ 10 % | 30 kPa |
| Water Absorption | 0.3% Vol |
| Temperature Resistance | -40 °C to +90 °C |
| Application Temp. Range | +10 °C to +25 °C |
| Tack Free time | 8 to 10 minutes |
| Trimable After | 20 to 60 minutes |
| Yield (Application and ambient condition dependant) | Up to x40 canister volume |
| Storage Temp. | +5 °C to +25 °C |
| Packaging | 750 ml canister x 12 per box |

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Example Test Summaries for Vertical Joints
 Consult the technical department for additional data

| Materials Tested | Gap Width & Sealant Depth | Wall Thickness | Test Result | | Test Ref Standards |
|-------------------------------------------------------------|------------------------------------------|------------------|-------------|------------|--------------------|
| | | | Integrity | Insulation | |
| Webbflex B1 Applied through joint & cut flush both sides | 20 mm Gap 210 mm sealant depth | 210 mm blockwork | 2 h 40 min | 2 h 40 min | TE 201442 |
| | 80 mm Gap 210 mm sealant depth | 210 mm blockwork | 1 h 22 min | 1 h 22 min | TE 201442 |

Typical Uses

Webbflex B1 Fire Resistant PU Foam is suitable for general gap filling, bonding and insulation applications where a fire rated fill is required. These include the perimeter sealing and fixing of fire resistant windows and doors and the sealing of mechanical and electrical service penetrations through compartment walls and floors.

Surface Preparation

Substrates must be clean and free from dirt and grease. Remove any loose particles by brushing. Dampen the joint surfaces with clean water before application to assist adhesion and accelerate curing.

Application

Shake the can thoroughly at least 20 times to mix the contents before use and repeat periodically during use. Follow the instructions printed on the canister label. Joints should be under filled to allow for post expansion of the foam. When filling deep joints apply

in layers, waiting until each layer has skinned and partially cured before applying the next. Misting each layer with clean water before subsequent application will assist adhesion and cure speed. The foam will be tack free in approximately 10 minutes and trimmable in 20 – 60 minutes depending on thickness, temperature and humidity. Webbflex B1 can provide over 2 hours fire resistance in suitably designed joints. Enhanced performance can be achieved by capping with a suitable Intumescent or fire rated sealant such as Nullifire M701 or M703. For further information please consult our Technical Sales Department.

Cleaning

Remove splashes immediately with Webbflex PU Foam Solvent Cleaner or acetone. Cured foam can only be removed mechanically.

Storage

Store between + 5°C and 25°C in dry conditions upright and in original packaging. Shelf life approximately 12 months. Do not expose to direct sunlight.

Limitations

Webbflex B1 Fire Resistant PU foam is not UV resistant and should be protected with a suitable opaque sealant, filler or paint. It does not bond to polythene, Teflon, siliconised or wax like surfaces.

Health & Safety

Product Health and Safety Data Sheet must be read and understood before use.