

Flexfoam Fire Stop Gun

Fire rated polyurethane gun foam



Description

Flexfoam Fire Stop Gun is a one-component, ready to use fire rated polyurethane gun foam designed for various building applications in places which have requirements concerning building materials reaction to fire properties.

Flexfoam Fire Stop Gun adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene, and has low expansion to avoid deformation of building elements.

Applications

Flexfoam Fire Stop Gun can be used for:

- ▲ Installation of fire-proof doors and windows.
- ▲ Sealing of joints in fire rated walls.
- ▲ Sealing works in places which have heightened requirements concerning building materials reaction to fire properties.
- ▲ Filling and sealing of gaps, joints, cavities and penetrations.
- ▲ Regular sealing works in construction sector.

Advantages

- ▲ Fire resistance up to 240 minutes
- ▲ Excellent adhesion to most common building substrates.
- ▲ High thermal and acoustical insulation.
- ▲ Low expansion avoids deformation of building elements.
- ▲ Gun applied giving the advantage of reusability.
- ▲ High mechanical strength.

Limitations

- ▲ Sensitive to UV and direct sun light.
- ▲ Not recommended for use in contact with Teflon, polyethylene and silicon surfaces.

Method of Use

Surface Preparation

Surfaces must be sound, clean, and free of oil and grease. Spray small amounts of water onto the substrate prior to the application. For cold applications Flexfoam Fire Stop Gun must be kept in a warm room where the temperature does not exceed 30°C before the application.

Technical Properties:

Colour:	Pink or red
Tack free time:	8 ± 3 min
Curing time:	< 30 min
Curing time in 3x5 cm joint (+23°C)	< 8 hrs
Post expansion:	< 50%
Density in joint, 3x10 cm:	20 ± 3 kg/m ³
Dimensional stability :	< 1%
Fire resistance class: EN 13501-2	Up to EI 240
Reaction to fire classification: EN 13501-1	B-s2,d0
Fire class of cured foam: DIN 4102-1	B1
Tensile strength: TM 1018	Dry surfaces > 150 kPa Moistened surfaces > 95 kPa
Elongation: TM 1018	Dry surfaces: 17% Moistened surfaces: 14%
Compression strength: TM 1011	> 40 kPa
Shear strength: TM 1012	> 45 kPa
Thermal conductivity:	0,03 W/(m·K)
Sound reduction index Rst,w:	60 dB
Water vapour permeability:	< 0,06 mg/(m·h·Pa)

Application

Shake Flexfoam Fire Stop Gun well (at least 20 times) before using, then attach the aerosol can onto the applicator gun. The discharge rate can be controlled by controlling the pressure on the trigger of the gun.

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Fill half of the cavities' volume and leave the foam to expand in the joint, then refill as necessary. Flexfoam Fire Stop Gun can must be kept upside down during the time of discharging. When applying foam in layers moisten slightly between each layer.

Cleaning

Uncured foam can be cleaned using acetone. Cured material can only be removed mechanically.

Packaging

Flexfoam Fire Stop Gun is packaged in 750 ml aerosol cans.

Yield

15 m per 750 ml, according to a joint size of 3 x 5 cm.

Storage

Flexfoam Fire Stop Gun has a shelf life of 12 months from the date of manufacturing if stored in the original unopened cans at temperatures between 5°C and 30°C away from direct sunlight, snow and rain.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Use only in well-ventilated areas. Do not smoke during application. Wear suitable protective clothing, gloves and eye/face protection.

Keep out of the reach of children.

For further information refer to the Material Safety Data Sheet.

Fire Resistance Classification:

EI 30-V-X-F-W-00 to 40	Joint depth 100mm and over
EI 45-V-X-F-W-00 to 20	Joint depth 100mm and over
EI 60-V-X-F-W-00 to 10	Joint depth 100mm and over
EI 90-V-X-F-W-00 to 60	Joint depth 200mm and over
EI 120-V-X-F-W-00 to 30	Joint depth 200mm and over
EI 180-V-X-F-W-00 to 20	Joint depth 200mm and over
EI 240-V-X-F-W-00 to 10	Joint depth 200mm and over

This classification is valid for the following end use applications:

1) The foam shall be used as fire resistant joint seal in joints of concrete, block work and masonry vertical separating elements with density of 650kg/m³ or greater and thickness of 100mm and over.

2) Linear joints shall have vertical orientation only and shall be filled throughout. Joint seal shall be fitted flush with the surface of the supporting construction and protected with steel sheet, thickness at least 0,5 mm.

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- ▲ Building products.
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Note:

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