

LOW EXPANSION FOAM

Low Expansion PU Foam.

Description

One component low expansion polyurethane foam which cures with moisture. Easy to use and apply. It has low post expansion in comparison to conventional foams (30%-50%), allowing the easy mounting of doors and windows without causing distortion of the frame. It has excellent adhesion to all kinds of building materials such as wood, cement, stones, metals etc, is resistant to ageing, moisture and fire (Class B3), while at the same time it is non-toxic.

Application Examples

- Fixing and insulation of door and window frames.
- Mounting of wooden staircases and sills.
- Filling cavities, large cracks, joints, openings and holes.
- Sealing of opening in roofs, separations etc.
- Sound insulation walls.
- Grouting and insulating of roof tiles, separations etc.
- Ideal for sealing, fixing and welding.

Advantages

- Excellent adhesion to most building materials..
- Low post expansion
- High thermal and acoustic insulation properties.
- Resistance to moisture.
- Resistance to ageing.
- Sensitive to UV radiation.

Technical Characteristics

Form: Highly viscous liquid that becomes froth immediately after the extrusion from the can and cures by reacting with humidity in the atmosphere.

Chemical base: Polyurethane

Scent: Light scent during polymerization. No scent after complete curing.

Density: 18-25 Kg/m³

Skin formation time: 7-8 min (20 °C, RH> 30%)

Curing time: 1 h/RH 93%
18 h/RH 15% max 24h

Fire Class: B3 DIN 4102

**Thermal stability
(cured foam):** -55 °C έως +100 °C

Water absorption (cured foam): Max 1% vol.

Tensile strength: Min 3 N/cm²

Substrate preparation

The application surface must be clean and free of dust (it can be wet but not frozen). Light wetting is recommended.

Instructions for use

Store the cans at room temperature for at least 12 hours prior to their use. The appropriate temperature of the can during application is between +20 °C to +25 °C. Shake the can for 15 seconds before use, holding it upside down. Then remove the black cap and fix to the appropriate gun.

During application of the foam keep the can in an upside-down position. The rate of extrusion is regulated by tilting the valve. Apply the foam in narrow lines and wait (about 1 minute) until it expands sufficiently 30%-50%, before placing any object.

The cured foam should be protected from UV radiation. The wetting of the substrate with water improves the adhesion and the cell structure of the cured foam, while also it accelerates the curing.

When not using the foam for more than 30 min, the adapter and the valve should be cleaned. The fresh foam can be cleaned with a special foam cleaner. The cured foam can only be removed mechanically. The cleaner only softens the cured foam.

Consumption

On can of foam can yield approximately 45 lt of cured foam, but this largely depends on several conditions at the application site (temperature, air humidity, dimensions of the cavity etc).

Packaging

Can 750 ml

Storage

The foam must always be stored upright and must not be stored at temperatures greater than +50 °C. The technical characteristics remain unchanged for 12 months from the date of production. For a longer life, temperatures higher than +25 °C and lower than -5 °C should be avoided.

Notes

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Other information

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