

FIRE RETARDANT

EXPANDING FOAM – CLASS B1

Technical Data

Properties	Performance
Fire behaviour (DIN 4102-1)	Class B1 (hardly inflammable)
Fire behaviour (DIN 13501-1)	Class B-s1,d0
Dripping behaviour (DIN 4102-16)	"no burning particles/drops dripping off"
Processing temperature can min./max.	+5°C to +30°C
Processing temperature environment min./max.	+15°C to +35°C
Temperature resistance	-40°C to +80°C short term +120°C
Yield free-foamed (20°C/65 % RLF) (FEICA TM1003)	approx. 40 liter / 750 ml can
Skin forming time (20°C/65 % RLF)	approx. 8-10 minutes
Cuttable at string thickness 2 cm (20°C/65 % RLF)	approx. 30 minutes
Resilient after (20°C/65 % RLF, moistened)	approx. 3 hours
Form stability (20°C/65 % RLF) (FEICA TM1004)	±5%
Compressive strength at 10% compression (DIN 53421)	5 – 7 N/cm ²
Bulk density SKZ method	approx. 22 kg/m ³
Thermal conductivity (EN12667)	approx. 0,035 W/mK
Storage (dry, at 20°C) higher temperatures shorten the storage time	12 months
Colour	Yellow

Key Features

Partel FOAMSEAL Liquid B1 fire retardant expanding foam is a moisture-curing 1-component polyurethane foam sealant suitable for processing with a PU foam gun. Free from CFC, HCFC and HFC.

- ✓ Excellent thermal and sound insulation
- ✓ Highest fire-resistance — B1
- ✓ Superior adhesion on various substrates
- ✓ High yield: 40 liters per can
- ✓ No dwell pressure after curing
- ✓ Skin forming time: approx. 8 - 10 minutes
- ✓ Resistant to aging - not applicable to UV radiation
- ✓ Eco-friendly propellants
- ✓ Fast and easy processing
- ✓ Dimensionally stable
- ✓ Frost and water-resistant
- ✓ High bonding strength on multiple substrates
- ✓ Good flow resistance, also suitable for wide joints
- ✓ Very low emission – EMICODE EC1^{PLUS}



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Fields of Application

Internal and external usage for thermal and sound insulation.

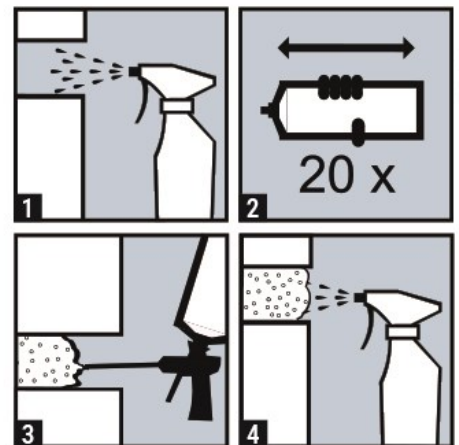
Partel FOAMSEAL B1 is suitable for windows, roof windows, attic conversion, doors, partition walls, precast walls, roller shutter boxes, air conditioning and ventilation systems, joints in thermal insulation systems, pipelines, metal structures, wooden structures.

Designed for filling joints, cavities, and wall penetrations.

Suitable substrates: Versatile to be used on various building substrates such as masonry, plaster, wood, concrete, aerated concrete, bricks, clinker, plasterboards, fiberboards, various plastics, corrosion-protected metals, styrofoam, various other insulating materials, ceramics, tiles, stone.

Application Process

1. The surface must be clean, stable and free from dust, grease, loose particles and release agents. For gypsum-based substrates, a suitable gypsum primer is recommended.
2. Moisten dry surfaces before foaming. Metals must be provided with a protective coating to prevent corrosion damage due to moistening prior and after application.
3. Shake the can well at least 20 times before use. Remove protective cap from valve.
4. Screw foam gun onto the can and foam sparingly/dosed. After foaming the foam should be sprayed again with water. This accelerates the reaction and ensures optimal curing.
5. The optimum can temperature is 20 °C. Deformation-sensitive components must be adequately supported until complete curing of the foam. Low temperatures slow curing significantly. Substrates must have temperatures of over 0 °C during the entire curing time. The gap widths should not be less than 5 mm and not more than 30 mm. For joints over 30 mm, possibly foam in several layers.



Safety Instructions

Wear gloves during processing as the fresh foam sticks strongly and can only be removed mechanically after hardening. Wear safety glasses. Remove hardened PU foam as far as possible mechanically, then treat the remainder with PU remover Partel FOAMSEAL Cleaner. Remove fresh foam splashes with Partel FOAMSEAL Cleaner.

"The information provided is based on current knowledge and experience. This data sheet may become invalid and we reserve the right to make changes to designs and processes as we continually improve quality. Processing instructions including full system component details should be adhered to. Visit partel.com for the most up to date information"



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