

Technical data sheet

PU FOAM LOW EXPANSION GUN GRADE B3

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Description

Low Expansion Gun Grade Polyurethane Foam is installation and insulation polyurethane foam expanded by foaming and hardening of the fluid reaction mixture by the effect of aerial moisture. The foam is intended for applications demanding lower expansion of the hardened foam and possible gluing of various construction materials.

Application

- gluing and installation of string boards and window parapets
- mounting and sealing of wooden, plastic and metallic window and external door frames, metallic and wooden door-frame and other structural parts
- insulation of hot water plumbing, hot water boilers, refrigeration equipment, bath tubs, shower trays
- sealing of gaps, cracks and cavities which cannot be filled with other sealing materials, sealing of plumbing, heating and gas piping and electric wiring
- other applications demanding low expansion of PU foam

Application procedure

- 1 Remove dust, grease and other contamination from the surface. Before the foam application the surface may be wet, but free from frost or ice.
NOTICE: PU foam is non-stick to surfaces: PE, PP, PTFE and silicone.
- 2 The optimal can temperature for application is +15°C to +20°C. The maximum allowed temperature difference between the ambient and the can is 5°C. Do not exceed the maximum allowed temperature interval for application from +5°C to +35°C.
- 3 Moisten surfaces with water applied from a spray bottle. Shake the can vigorously at least for 1 minute. Screw the can onto the application gun. Bottle working position is the valve facing downwards. The amount of ejected foam can be regulated by pulling the gun trigger. If the cavity is wider than 5 cm, we recommend to fill it in layers with maximal width of 2 cm. Wet the surface of each fresh foam layer and continue by adding other layer(s) until the space is filled up. The foam will expand during curing; therefore, fill the space only up to 2/3. Volume and quality of cured foam is influenced by the relative air humidity. Intensive moistening is necessary if relative air humidity is below 35 %.
- 4 Cured foam you can cut by a knife. The surface of cured PU foam must be protected from a long-term UV radiation.
- 5 Fresh foam can be removed by PU CLEANER, cured foam mechanically only. The gun must be cleaned by PU cleaner immediately after finishing work i.e. after removing the bottles from the gun. Before screwing the cleaner onto the gun connector, put a plastic tube, which is included in the gun package. This prevents aerosol formation during cleaning.

Safety and protection of health

When using this product wear protective glasses and gloves. More information is contained in the MSDS.

Specifications

Form	foaming liquid
Colour	light cream, blue, green, grey
Odour	of hydrocarbons
Maximum application temperatures range	+5°C to +35°C
Optimum can temperature for application	+15°C to +20°C
Tack free time (TM1014-2013) *	10 minutes
Cutting time (strip of 2 cm diameter) (TM1005-2013) *	max. 25 minutes
Final curing time *	12 hours
Density of freely expanded foam (PN 03) *	14 – 18 kg/m ³
Density of foam in gap (PN05) *	17 – 21 kg/m ³
Foam yield of 750 ml can (TM1007-2013) *	40 – 45 litres
Dimensional stability (TM1004-2013) *	max. ±5%
Fire class (DIN 4102)	B3

Note: * Temperature and relative humidity of air during the test: +20°C, 60%; TM – test method of FEICA association; PN – company standard; DIN – German standard;

Packaging

The product is supplied in a pressure cans with a filling volume from 870 ml to 500 ml. Packing in cartons of 12 pcs. Palette contains 624/672/780/840/960/1008 cans.

Storage

Store the cans in the vertical position with the valve facing upwards. Keep in a dry and well-ventilated place at a temperature between +5°C to 25°C. Guaranteed shelf life of the product is 18 months from the date of production.

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