KITTEN

BELNED GLASS & GLAZING PRODUCTS

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TECHNICAL DATA PU-GUNFOAM USER FRIENDLY

PRODUCT DESCRIPTION

PU Gunfoam User Friendly is a one-component, **low-monomer** gun foam, ideal for filling and insulating joints and cavities against climatic impacts and noise. It is universally applicable (similar to conventional polyurethane foams) and is particularly **user-friendly due to the free isocyanates residual content of less than 0.1%.**
This product has been manufactured under the controls established by an audited quality management system that conforms to ISO 9001:2015.

PRODUCT BENEFITS

- free isocyanate content less than 0.1%
- white foam colour
- very fine cell structure
- thermal conductivity according to EN 17333-5 (insulation board 270x270x30mm^3)
  - λ_{10} = 0,036 (W/(m K)
- Sound reduction of joints according to EN ISO 717-1 (and EN ISO 10140-1) (joint width w=20mm; joint depth d=100mm)
  - [$R_{S,w}$ (C; C_{tr}) ≥ 62 (-1; -5) dB]
- Water vapour resistance factor according to EN ISO 12572 – Climate Set A (Insulation cylinder t=94mm; d=70mm)
  - $\mu_{0/50}$ = 21
- Air permeability in new condition acc. to EN 12114 (joint width w=20mm / joint depth d=70mm)
  - a < 0,1 m3/[(m h (daPa)2/3]
  - airtight
- very low emission (GEV EMICODE EC1 Plus)
- French VOC-Emission Class: A+
- German Sustainable Building Council (DGNB): Quality level 4
- Building material class B2 according to DIN 4102 part 1

AREAS OF APPLICATION

- Window mounting (for clean and controlled backfill as well as insulating and sealing window seams and rolling shutter housings)
- Filling and insulation of joints and cavities in roof extensions and roof insulation
- Filling smaller wall recesses, conduit penetrations and other cavities of any kind.

PRODUCT FEATURES

PU Gunfoam User Friendly adheres to all common building materials except polyethylene, silicone, oils and greases, mould release agents or similar substances. The foam can be used at surface and ambient temperatures of +5°C to +30°C. Cured foam is predominantly closed-celled, rot-proof, moisture- and temperature-resistant from -40°C to +60°C. It is aging resistant, however not against UV radiation. Heat and noise reduction are excellent. This foam is not suitable for assembly purposes.

WORK PREPARATION

Surface must be firm, clean, dust and grease free. Remove loose particles **and dampen the immediate area with water before proceeding**. Have the PU-Cleaner ready for cleaning and removal of fresh foam. The ideal working temperature is +20°C. Cans that are too cold can be carefully heated in lukewarm water. **Attention: Never heat above +50°C, as the can may burst. Cans that are too hot, such as those left in a car during summer, can be cooled in cold water, but do not shake!** Follow the gun operating instructions. Before connecting with the foam gun, **shake the can about 30x**. Placing the can on a surface, attach the gun by screwing it onto the threaded collar of the can. Do not tilt or overtorque the threaded adapter. Repeat the shaking after longer interruptions.

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APPLICATION

Fill voids modestly, as fresh foam can expand by about 220%. Foam is dispensed by squeezing the trigger. After the application is finished, any foam left on the foam gun should be cleaned immediately with PU-Cleaner. Cured foam can only be removed by mechanical means. **If the can isn't empty, leave the foam gun connected until the next application!** An opened can should be used within 4 weeks. Once the can is completely empty, remove the gun carefully and clean the outside with PU-Cleaner immediately. Then connect a can of PU-Cleaner to the gun and press the trigger several times to rinse the gun's inner parts with pointing the nozzle into an appropriate receiving container. **Caution: The cleaner is dispensed under high pressure!**

SHELF LIFE & STORAGE

Standard Valve System (VPG01): 12 months / Safety Valve System (VKS01 / VKS02): 18 months.
The ideal storage temperature is between +10 and +20°C. Considerably higher temperatures may reduce the shelf-life. Cans must be stored **upright** and protected from humidity, frost and heat.
Empty cans should be disposed of in accordance with national regulations.

SAFETY INSTRUCTIONS

Safety Data Sheet is available.

TECHNICAL DATA

Measured at + 23°C, 50% relative humidity, according to FEICA test methods & EN 17333.

Application temperatures** (surfaces and ambient)	minimum	+ 5°C	Tensile strength (EN 17333-4.2)	dry	~ 100 kPa
	optimal	+ 20°C		moist	~ 85 kPa
	maximum	+ 30°C	Elongation at break (EN 17333-4.2)	dry	~ 30 %
Application temperatures of can**	minimum	+ 5°C		moist	~ 28 %
	maximum	+ 30°C	Compression strength (at 10% compression) (EN 17333-4.1)	dry	~ 20 kPa
Foam colour	white			moist	~ 20 kPa
Cell structure	very fine		Shear strength (EN 17333-4.3)	moist	~ 55 kPa
Free foamed density (EN 17333-1.3)	dry	~ 19 kg/m3	Movement capability (EN 17333-4.4 / moist)	velocity ≤ 2 mm/min movement: ± 5%	
Tack free time (EN 17333-3.2)	dry	~20 min			
Cutting time (17333-3.1)	dry	~ 95 min	Curing pressure (EN 17333-2.2 / moist)	after 2.5 h	~ 1.4 kPa
Fully loadable (Ø30 mm strand)	~ 12 hours		Post expansion (EN 17333-2.3)	dry	~ 220%
Sagging behaviour and max. joint width (17333-3.3)	dry (+23°C)	Level 1 up to 50 mm	Temperature resistance of a cured foam	- 40°C to +60°C (short term up to +80°C)	
Joint foam yield* (17333-1.1 / dry application)	750 ml	up to 28 m	GEV EMICODE	EC1 PLUS very low emission	
Total foam yield* (17333-1.2 / moist application)	750 ml	up to 35 litres	German Sustainable Building Council (DGNB)	Quality Level 4	
Brittleness (FEICA TM 1008 / dry application)	+5°C / 6h / 24h	2 / 1	French VOC-Emission Class	A+	
Dimensional stability (EN 17333-2.1)	dry	± 5 %	Construction Material Class according to DIN 4102 Part 1	B2	
	moist	± 5 %			

* Proportional relationship between yield and fill capacity is generally not provided. Cans with less/more volume must be considered separately.
** Can temperature min. +5°C and max. +30°C. Optimal application temperature is +20°C, other temperature can lead to other results.