PENOSIL
We save energy / Wolf Group

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TECHNICAL DATA SHEET

PENOSIL Low Monomer Gunfoam 122

One-component ready to use polyurethane gunfoam with diisocyanate monomer content below 0,1%. Suitable for various building applications, e.g. installation of window and door frames, sealing of deep and narrow joints, thermal and acoustic insulating. Adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.

- Formula with very low (<0,1%) diisocyanate content
- Dense, consistent and flexible foam structure
- Enhanced UV resistance
- Excellent movement capability
- Low curing pressure
- High thermal and acoustic insulation value
- No need for additional moistening

Fields of application

- Sealing window and door joints
- Sealing and joining movable or pressure-sensitive joints
- Insulation of penetrations
- Reducing the impact of thermal bridges
- Thermal and sound insulation

Application instructions

Application conditions
Air temperature during use: +5 °C to +30 °C. Make sure the ambient temperature stays within this range until the foam has fully cured.
Can temperature during application: +10 °C to +25 °C, best results at +20 °C.

Surface preparation
Remove dust, loose particles and oil stains from the surfaces. Protect adjacent surfaces with paper, plastic film or other suitable material. If needed add additional shield outside for weather protection (against rain, wind, etc.).

Application method
Application with EasyGun applicator: shake the can vigorously at least 20 times. Hold the foam can in upright position with valve up. Place the EasyGun applicator onto valve, press slightly until the applicator is fixed. Hold the can upside down when extruding the foam. Foam output can be adjusted with applicator trigger.
Application with foam gun: shake the can vigorously at least 20 times. Remove the cap. Hold the foam can in upright position with valve up. Screw the can tightly to the gun by holding the gun handle with one hand and turning the can with the other hand. Do not aim the gun at people. Avoid screwing the can to the gun with valve upside down. Do not screw the gun to the can. Do not bend or turn the can during screwing. Hold the can upside down when extruding the foam. Foam output can be adjusted with gun trigger and adjustment screw.
Fill joints up to approx. 65%, as the foam expands. In case of larger joints apply foam in several layers and moisten slightly between each layer to ensure better results.
Excess foam can be cut after it has fully cured.

Cleaning
Use Penosil Foam Cleaner to clean tools and surfaces from uncured foam. Hands, clothes and foam gun can also be cleaned from uncured foam with Penosil Cleaning Wipes. Remove cured foam mechanically after softening with Penosil Foam Remover.

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Technical data

Properties	Value	Unit
Tack free time (EN 17333-3)	23…27	min
Cutting time (30 mm bead, EN 17333-3)	<70	min
Fully cured in joint, 3x5cm (+23 °C)	<48	h
Curing pressure (EN 17333-2, dry surfaces)	<1,5	kPa
Post expansion (EN 17333-2)	<80	%
Density in joint, 3x10cm (WGM106)	15…19	kg/m^3
Dimensional stability (EN 17333-2, moistened surfaces)	<3	%
Temperature resistance of cured product	-50…+70	°C
Reaction to fire classification (EN 13501-1)	F	
Fire class of cured foam (DIN 4102-1)	B3	
Tensile strength / elongation (EN 17333-4, moistened surfaces)	>95/40	kPa / %
Compression strength (EN 17333-4, moistened surfaces)	>15	kPa
Shear strength (EN 17333-4, moistened surfaces)	>65	kPa
Thermal conductivity (EN 12667, EN 17333-5)	0,034	W/(m·K)
Sound reduction index $R_{st,w}$ (EN ISO 10140)	62	dB
Movement capability (WGM113)	±25	%

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified. These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

Technical classification and certificates

- EMICODE® EC1 Plus - very low emission
- M1 - low emission & odour

Colour

White.

Package

1000 ml aerosol can, content 700 ml, 12 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life is 12 months from production date if stored in an unopened packaging in a cool and dry place at +5 °C to +30 °C. Do not expose to temperature over +50°C, do not keep near heat sources or in direct sunlight. Store and transport in upright position. Secure cans before transport.

Limitations

- PU foam lacks adhesion to Teflon, polyethylene and silicone surfaces.
- Cured foam is less sensitive to UV-light and direct sunlight than other conventional one-component polyurethane foams. It is recommended to cover the cured foam with suitable opaque sealant, filler, paint or other material to ensure lasting quality features. Do not cover before foam has fully cured.
- Though there is no need for additional moistening, the foam still needs air humidity for curing. Do not cover with materials preventing access of air humidity before the foam has completely cured.
- Please observe the expiration date!

Safety regulations

Pressurized canister. Use only in well-ventilated areas. Do not smoke during application! Use protective gear when necessary. Keep out of the reach of children.
See label and safety data sheet (SDS) for more information.

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Note: The instructions in the present documentation are based on tests carried out by the manufacturer and are presented in good faith. Due to variations in materials and substrates as well as the various application possibilities that are beyond our control, the manufacturer is not liable for the results achieved. In any case, it is recommended to test the product suitability at the place of application. Manufacturer reserves the right to modify products without prior notice.
This TDS replaces and supersedes all previous data sheets on the same product.