PENOSIL

TECHNICAL DATA SHEET

PENOSIL Strawfoam MDI Free 242

Diisocyanate monomer free filling foam

One-component, ready to use straw foam for various building applications, e.g. filling of holes, sealing of joints and penetrations, thermal and acoustic insulating. Adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.

Main benefits

- Extra low curing pressure and post expansion
- Excellent movement capability
- Enhanced UV resistance
- High thermal and acoustic insulation value
- Diisocyanate, TCPP & VTMO free formulation

Fields of application

- Sealing and joining of joints
- Insulation of penetrations
- Reducing the impact of thermal bridges
- Thermal and sound insulation

Colour

Light yellow.

Package

650 ml aerosol can, content 500 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 vertical position. Secure cans before transport.

Technical classifications and certificates

- EMICODE® EC 1 Plus - very low emission
- M1 - low emission & odour
- French VOC class A+

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Technical data

Properties	Value	Unit
Tack free time (EN 17333-3)	8...12	min
Fully cured in joint, 3x5cm (+23 °C)	<48	h
Curing pressure (EN 17333-2, moistened surfaces)	0	kPa
Post expansion (EN 17333-2)	<100	%
Density in joint, 3x10cm (WGM106)	40...45	kg/m³
Temperature resistance of cured foam	-50...+90	°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)	>75/21	kPa / %
Compression strength (EN 17333-4, moistened surfaces)	>9	kPa
Shear strength (EN 17333-4, moistened surfaces)	>25	kPa
Thermal conductivity (EN 12667, EN 17333-5)	0,033	W/(m·K)
Sound reduction index Rst,w (EN ISO 10140)	62	dB
Movement capability (WGM113)	±20	%

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.

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: +15 °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

Shake the can vigorously at least 20 times. Remove the cap. Hold the foam can in upright position with valve up. Screw the straw applicator tightly to the foam can valve. Hold the can upside down when extruding the foam. Foam output can be adjusted with the applicator trigger.
Fill joints up to approx. 60%, as the foam expands. In case of larger joints apply foam in several layers.
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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Limitations

- PU foam lacks adhesion to Teflon, polyethylene and silicone surfaces.
- Cured foam is sensitive to UV-light and direct sunlight and therefore must be covered with suitable opaque sealant, filler, paint or other material. Do not cover before foam has fully cured.
- Lighter construction elements must be firmly fixed before application of the foam due to formula`s high post expansion.
- 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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