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TECHNICAL DATASHEET

PENOSIL Premium Elastic Gunfoam

High quality one-component elastic construction foam with especially low expansion pressure. Resists well to vibration, is particularly suitable for narrow and moving joint junctures. Restores its original shape after being compressed.
One-component polyurethane foam is mixture of pre-polymers in pressurized container and it will cure when exposed to the moisture present in air. Cured foam is a good temperature and sound insulator, and has strong adhesive properties. Adheres well to most building materials, with the exception of Teflon, polyethylene and silicon surfaces. Cured foam is sensitive to UV-light and direct sunlight.

Field of application

Foam is used for installation of doors and windows, insulation and fixation of tubes, filling of holes and gaps, fixation of wall panels and roof stones, and for thermal insulation. Suits well in places where the elastic features and minimum expansion pressure are relevant – for example: wooden and log house joint junctures, narrow and pressure sensitive joint junctures, etc.

Application conditions

Air temperature during application -5 °C…+30 °C, best results at +5 °C… + 30 °C.
Can temperature during application +5 °C…+25 °C, best results at + 20 °C.
Surfaces must be clean from dust, loose particles and oil before foam is applied.
Cured foam can be painted.

Application instruction

Hold the foam can in upright position, turn the gun to the can by holding the gun handle with one hand, and turn the can with the other hand. Make sure that the gun is not pointed to other persons when turning it. The can must not be screwed to the gun with the valve upside down or by turning the gun on the can.
After fixing the gun, shake the can well at least 20 times. The foam output can be adjusted by gun trigger.
Substrate should be moistened as the foam expands due to the moisture. A moistened surface ensures better results. At low temperatures foam can must be warmed before work in warm room or water.
Temperature of room or water must not exceed +30 °C.

Cleaning

Uncured foam can be cleaned from tools and surfaces with PENOSIL Premium Foam Cleaner.
Cured foam can be removed mechanically after softening with PENOSIL Premium Foam Remover.
Hands, clothes and foam gun can be cleaned from uncured foam with moistened PENOSIL Premium Cleaning Wipes.

Technical data

Property	Unit	Value
Tack free time	minutes	10–14
Cutting time (30 mm bead)	minutes	30–40
Completely cured in joint (+23 °C)	hours	max. 18
Completely cured in joint (+5 °C)	hours	max. 24
Density	kg/m³	15–20
Fire class of cured foam(DIN 4102-1)		B3

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Dimensional stability	%	±2
Expanding volume	%	up to 40
Pressure development	N/dm^2	<50
Tensile strength (BS 5241)	N/cm^2	10
Elongation at breaking point (KRI001)	%	up to 40
Compression strength at 10% (DIN 53421)	N/cm^2	1,5
Thermal conductivity	W/(m·K)	0,034
Sound reduction index $R_{S,w}$	dB	60
Temperature resistance of cured foam	°C	long term: -50…+90 short term: -65…+110

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified.

Storage conditions

Can must be stored and transported in vertical position. Store in a cool and dry place. Store at temperatures +5 °C…+30 °C. Storage life 12 months.
Aerosol can must not be stored at temperatures over +50 °C and in direct sun.

Safety regulations

Can contains diphenylmethane-4,4'-diisocyanate. Dangerous when inhaled. Irritates eyes, skin and respiratory organs. Inhalation of gas may cause allergy. In case of eye-contact rinse thoroughly with water and seek medical help. Do not smoke during work! Make sure that there is good ventilation, use protection means when necessary. Keep out of the reach of children. Aerosol can must not be stored at temperatures over +50 °C and in direct sun.
Detailed safety information is available on safety data sheet (SDS).