

# PENOSIL

## TECHNICAL DATA SHEET

### PENOSIL EasySpray Foam 111

#### Sprayable gun foam

One-component, ready to use sprayable polyurethane foam for insulation of buildings, vehicles, vessels and uneven surfaces. Application of the foam is very convenient and fast with the accompanying special nozzle. Adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.

#### Main benefits

- <0,1% diisocyanates
- High thermal and acoustic insulation value
- Enhanced UV resistance
- Thickness of insulation layer is freely selectable
- Quick and easy application
- Excellent adhesion to all commonly used building materials
- Good movement capability

#### Fields of application

- Thermal and sound insulation of buildings, vehicles, vessels, uneven surfaces, etc.
- Insulation repair works and insulating hard to reach places
- Reducing the impact of thermal bridges
- Prevention of condensation on cold surfaces

#### Technical classifications and certificates

- 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.

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## Technical data

Properties	Value	Unit
Tack free time (EN 17333-3)	<30	min
Rise time	<15	min
Fully cured (+23 °C)	24	h
Post expansion (EN 17333-2)	100	%
Density	12...16	kg/m <sup>3</sup>
Short term temperature resistance of cured foam	-50...70	°C
Reaction to fire classification (EN 13501-1)	F	
Fire class of cured foam (DIN 4102-1)	B3	
Thermal conductivity (EN 12667, EN 17333-5)	0,033	W/(m·K)
Sound reduction index R <sub>st,w</sub> (EN ISO 10140)	62	dB
Output (1 layer)	1	m <sup>2</sup> /can

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: +10 °C to +30 °C. Make sure the ambient temperature stays within this range until the foam has fully cured.

Can temperature during application: +18 °C to +28 °C, best results at +20 °C.

### Surface preparation

Remove dust, loose particles and oil stains from the surfaces. Moisten dry substrate to ensure better results. 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

Attach the application nozzle to the tip of the 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. Rotate the nozzle as needed (for vertical or horizontal application). Hold the can upside down when extruding the foam. Foam output can be adjusted with gun trigger and adjustment screw.

Apply the foam from distance of approx. 40 cm from the surface. The application distance determines the width of the application area – the shorter the distance, the narrower the application area. Maximum thickness of the foam in one layer should not exceed 2 cm. If another layer of foam is needed, wait for at least 60 minutes before applying the next layer. Number of layers is not limited. When applying foam in layers moisten slightly between each layer, but make sure there are no water drops on the surface before applying foam.

Excess foam can be cut after it has fully cured.

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## 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.

## Limitations

- PU foam lacks adhesion to Teflon, polyethylene, polypropylene and silicone surfaces.
- It is not advisable to unscrew the gun from the foam canister intermittently. Foam should be used in a way that the gun is screwed on once.
- 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.
- Do not use in places with long-lasting direct contact with water as this reduces thermal insulation properties.
- Spray nozzle is compatible with most foam guns. Always check compatibility before choosing the foam gun.
- Please observe the expiration date!

## Safety regulations

Pressurized canister. Use only in well-ventilated areas. When using indoors, ventilate the room after application of foam. 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.

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.

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