

TECHNICAL DATA SHEET

PENOSIL Landscaping Adhesive 865

Foam adhesive for landscaping works

One-component polyurethane foam gap filler and adhesive for quick and easy use. Specially formulated as black color to blend into surrounding landscape.

Main benefits

- Great gluing properties
- Expands to fill gaps and voids
- Can be used in contact with water
- Cured foam is harmless to animals and plants
- Suitable for all season use

Fields of application

- Securing elements in hardscaping projects such as small retaining walls, garden edging, etc.
- Filling and sealing exterior gaps in foundations, retention walls, wooden structures, etc.
- Pond and water feature construction.
- Securing outdoor decorations such as flower pots, statues, bird baths, artificial plants, etc.



Colour

Black/dark grey.

Package

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

Storage conditions and shelf life

Guaranteed shelf life is 18 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.

PENOSIL Landscaping Adhesive 865

Adhering

- Rock
- Stone
- Concrete
- Wood
- Roof tiles
- Polystyrene
- Plasterboards
- OSB, chipboard
- Metal
- PVC

Technical classifications and certificates

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

PENOSIL Landscaping Adhesive 865

Technical data

| Properties | Value | Unit |
|--|------------|-------------------|
| Tack free time (EN 17333-3) | 6...10 | min |
| Cutting time (30 mm bead, EN 17333-3) | < 30 | min |
| Fully cured in joint, 3x5cm (+23 °C) | < 8 | h |
| Fully cured (+5/-5 °C) | < 24 | h |
| Post expansion (EN 17333-2) | < 50 | % |
| Density in joint, 3x10cm (WGM106) | 15...19 | kg/m ³ |
| Short term temperature resistance of cured foam | -50...+100 | °C |
| Temperature resistance of cured foam adhesive | -50...+90 | °C |
| Fire class of cured foam adhesive (DIN 4102-1) | B3 | |
| Tensile strength / elongation (EN 17333-4, moistened surfaces) | 98/24 | kPa / % |
| Tensile strength / elongation (EN 17333-4, dry surfaces) | 78/20 | kPa / % |
| Compression strength (EN 17333-4, moistened surfaces) | 35 | kPa |
| Shear strength (EN 17333-4, moistened surfaces) | 52 | kPa |
| Thermal conductivity (EN 12667, EN 17333-5) | 0,033 | W/(m·K) |
| Sound reduction index R _{st,w} (EN ISO 10140) | 62 | dB |
| Water vapour permeability (EN 12086) | < 0,06 | mg/(m·h·Pa) |
| Foam yield in joint, 3x5 cm (WGM107), per 750 ml filling rate | 15 | m |
| Foam yield (EN 17333-1), per 750 ml filling rate | 44 | l |

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, best results at +20 °C.

Can temperature during application: +5 °C to +25 °C, best results at +20 °C.

Foam can has to be warmed with water or air (max. +30 °C) before starting work in low temperatures.

Surface preparation

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

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 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. 75%, 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.

PENOSIL Landscaping Adhesive 865

Cleaning

Use PENOSIL Foam Cleaner to clean tools and surfaces from uncured foam. Hands and clothes can also be cleaned from uncured foam with PENOSIL Cleaning Wipes. Cured foam adhesive with mechanical means.

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 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.
- 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.

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.

23-04-2025 14:49:29