

## TECHNICAL DATASHEET

# PENOSIL Premium FastFoam 2K

Quick-curing two component strawfoam that is particularly well suited for filling areas that are difficult to access or require mechanical strength. Does not require air humidity for curing. Cured foam has high dimensional stability and mechanical strength properties, as well as high thermal and acoustic insulation value. Adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.

### Main benefits

- Quick curing time
- High mechanical strength
- Low expansion avoids deformation of building elements
- High thermal and acoustic insulation value
- Very good adhesion properties

### Fields of application

- Filling areas that are difficult to access or require mechanical strength
- Insulation of gaps and penetrations
- Insulation of vehicles, containers or equipment
- Gluing of window sills
- Single-point installation of doors

### Application instruction

#### Application temperature

Air temperature during use: +5 °C to +30 °C, best results at +20 °C.

Can temperature before activation: +10 °C to +25 °C, best results at +20 °C. The can has to be cooled down in water if the temperature of the can exceeds +25 °C.

#### Surface preparation

Remove dust, loose particles and grease from the surfaces.

Protect adjacent surfaces with paper, plastic film or other suitable material.

#### Application method

Before use, remove the protective cap from the valve and turn the adapter onto it. For the internal cylinder to be activated, the actuator propeller on the bottom of the cylinder needs to be turned at least 6 times in the direction of the arrow. Then shake the canister well at least 30 times in order for components A and B to mix properly. If the can is cold, shake more (the foam quality depends on the result of shaking). Immediately turn the can upside down and begin applying foam, or else the temperature inside the can may rise over +50 °C and result in the risk of explosion. After turning the disc, you have approximately 5 minutes to use the foam; after that, any foam left inside the canister will cure. Hold the can upside down and adjust the foam output by pressing the valve. Foam should be evenly light green color. If it is not, shake the canister again and continue to apply the foam.

Fill the gap only partially, since the foam will expand. Gaps of any size may be filled, since the foam does not require air humidity to cure. There are no constraints on the volume or diameter of joints or gaps.

#### 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 surfaces can be cleaned from uncured foam with moistened PENOSIL Premium Cleaning Wipes.

## Technical data

Properties	Value	Unit
Tack free time (TM 1014)	8-10	min
Cutting time (TM 1005)	15	min
Completely cured in joint, 3x5cm (+23 °C)	<2	h
Post expansion (TM 1010)	<100	%
Density in joint, 3x10cm (WGM106)	35-38	kg/m <sup>3</sup>
Dimensional stability (TM 1004)	<1	%
Temperature resistance of cured foam	-50...+90	°C
Fire class of cured foam (DIN 4102-1)	B2	
Tensile strength / elongation (TM 1018, dry surfaces)	>290 / 18	kPa / %
Compression strength (TM 1011, dry surfaces)	>115	kPa
Shear strength (TM 1012, dry surfaces)	>125	kPa
Thermal conductivity (EN 12667, TM 1020)	0,026	W/(m·K)
Sound reduction index R <sub>st,w</sub> (EN ISO 10140)	60	dB

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.

## Colour

Green

## Package

Aerosol can 650 ml, content 400 ml, 12 cans in a box.

## Storage and shelf-life

Guaranteed shelf life is 12 months from production date if stored in unopened packaging in a cool and dry place at +5 °C to +25 °C. The foam cans must not be stored above +50 °C, nearby heat sources or in direct sunlight. Store and transport in a vertical position.

## Limitations

Once the two component curing system has been activated, heat is released; for this reason, the content of the can needs to be used within 5 minutes. If the can is not emptied completely or if its temperature exceeds +25 °C before activation, there is a risk of explosion of the can.

The foam does not adhere to Teflon, polyethylene and silicon 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.

## Safety regulations

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.