

# PENOSIL

## TECHNICAL DATA SHEET

### PENOSIL 2K Foam B2 202

#### Two-component straw foam

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
- Very good adhesion properties
- High thermal and acoustic insulation value
- No need for additional moistening

#### 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

#### Technical classifications and certificates

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

#### Colour

Green.

#### Package

650 ml aerosol can, content 400 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.

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## Technical data

Properties	Value	Unit
Tack free time (EN 17333-3)	8...10	min
Cutting time (30 mm bead, EN 17333-3)	15	min
Fully cured in joint, 3x5 cm (+23 °C)	<2	h
Post expansion (EN 17333-2)	<100	%
Density in joint, 3x10 cm (WGM106)	35...38	kg/m <sup>3</sup>
Dimensional stability (EN 17333-2, moistened surfaces)	<1	%
Temperature resistance of cured foam	-50...+90	°C
Fire class of cured foam (DIN 4102-1)	B2	
Tensile strength / elongation (EN 17333-4, dry surfaces)	>290/18	kPa / %
Compression strength (EN 17333-4, dry surfaces)	>115	kPa
Shear strength (EN 17333-4, dry surfaces)	>125	kPa
Thermal conductivity (EN 12667, EN 17333-5)	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.

## 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: +15 °C to +25 °C, best results at +20 °C.

### Surface preparation

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. Remove cured foam mechanically after softening with PENOSIL Foam Remover.

### Application method

Before use, remove the protective cap from the valve and turn the straw applicator onto it. Turn the actuator propeller on the bottom of the cylinder at least 6 times in the direction of the arrow to activate the internal cylinder. Then shake the can vigorously at least 30 times in order for components A and B to mix properly. If the can is cold, shake more. 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 propeller, 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 trigger. Foam should be evenly light green or light blue 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. 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 and clothes can also be cleaned from uncured foam with PENOSIL Cleaning Wipes. Remove cured foam mechanically after softening with PENOSIL Foam Remover.

## 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
- 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.
- 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.

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