

TECHNICAL DATASHEET

One-component polyurethane foam All Season Black Gunfoam

One-component, ready to use polyurethane gunfoam for various building applications, e.g. sealing of joints and penetrations, installation of window and door frames, thermal and acoustic insulating. Ensures good results all year around. Low curing pressure and moderate post expansion avoid deformation of building elements. Adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.

Main benefits

- Suitable for all season use, from 23°F up to 86°F
- High thermal and acoustic insulation value
- Low curing pressure and moderate post expansion avoid deformation of building elements

Fields of application

- Installation of window and door frames
- Sealing of thermal and acoustic insulation boards
- Insulation of penetrations
- Sealing and connection of joints
- Reducing the impact of thermal bridges

Application instruction

Application temperature

Air temperature during use: 23°F to 86°F, best results at 68°F.

Can temperature during application: 41°F to 77°F, best results at 68°F.

Foam can has to be warmed with water or air (max. 86°F) before starting work in low temperatures.

Surface preparation

Remove dust, loose particles and grease from the surfaces. Moisten dry substrate to ensure better results. Protect adjacent surfaces with paper, plastic film or other suitable material.

Application method

Shake the can vigorously at least 20 times. 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 at 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. Turn the can upside down and start applying. The foam output can be adjusted by the gun trigger.

When applying foam in layers moisten slightly between each layer.

Cleaning

Uncured foam can be removed with acetone, cured foam with mechanical means.

Technical data

Properties	Value	Unit
Tack free time (TM 1014)	8-12	min
Cutting time (TM 1005)	<30	min
Completely cured in joint, 3x5cm (+23 °C)	<8	h
Curing pressure (TM 1009, moistened surfaces)	<3	kPa
Post expansion (TM 1010)	<80	%
Density in joint, 3x10cm (WGM106)	12-16	kg/m ³
Temperature resistance of cured foam	-50...+90	°C
Fire class of cured foam (DIN 4102-1)	B3	
Tensile strength / elongation (TM 1018, dry surfaces)	>80 / 19	kPa / %
Tensile strength / elongation (TM 1018, moistened surfaces)	>65 / 19	kPa / %
Compression strength (TM 1011, moistened surfaces)	>20	kPa
Shear strength (TM 1012, moistened surfaces)	>45	kPa
Thermal conductivity (EN 12667, TM 1020)	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	18,5	m
Foam yield (TM 1003), per 750 ml filling rate	53	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.

Storage and shelf-life

Guaranteed shelf life is 15 months from production date if stored in unopened packaging in a cool and dry place at 41°F to 86°F. The foam cans must not be stored above 122°F, nearby heat sources or in direct sunlight. Store and transport in a vertical position.

Limitations

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.