

SabreFixTM SF

SabreFix SF is a one-component, ready to use polyurethane straw foam for various building applications, e.g. filling of holes, sealing of joints and penetrations, thermal and acoustic insulating. Ensures good results in winter conditions. The foam has good volume expansion for effective filling. Foam does not shrink after curing keeping the risk of deformation of joints and separation from the surface minimal. Adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.



Main Benefits

- Suitable for use in lower temperatures
- Good volume expansion for effective filling
- High thermal and acoustic insulation value
- Good gluing properties

Field of Application

- Filling of holes
- Insulation of penetrations
- Sealing of thermal and acoustic insulation boards
- Sealing and connection of joints
- Reducing the impact of thermal bridges

Application Instructions

Application Temperature

Air temperature during use: -10 °C to +30 °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. Protect adjacent surfaces with paper, plastic film or other suitable material.

Application method

Hold the foam can in upright position. Screw the applicator (straw) to the foam can valve. Shake the can vigorously at least 20 times. For application, turn the can upside down and press the applicator trigger. Use the applicator trigger to adjust the foam output.

Cleaning

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

Technical Characteristics

PROPERTY	VALUE	UNIT
Tack free time (TM 1014)	8-12	min
Cutting time (TM 1005)	<45	min
Completely cured in joint, 3x5cm (+23 °C)	<16	h
Completely cured in joint, 3x5cm (+5/-5 °C)	<32	h
Curing pressure (TM 1009, moistened surfaces)	<6	kPa
Post expansion (TM 1010)	<150	%
Density in joint, 3x10cm (WGM106)	21-25	kg/m ³
Dimensional stability (TM 1004)	<5	%
Temperature resistance of cured foam	-50...+90	°C
Fire class of cured foam (DIN 4102-1)	B3	
Tensile strength / elongation (TM 1018, dry surfaces)	>135 / 23	kPa / %
Tensile strength / elongation (TM 1018, moistened surfaces)	>110 / 26	kPa / %
Compression strength (TM 1011, moistened surfaces)	>30	kPa
Shear strength (TM 1012, moistened surfaces)	>55	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)	<0,04	mg/(m·h·Pa)
Foam yield in joint, 3x5 cm (WGM107), per 750 ml filling rate	9	m
Foam yield (TM 1003), per 750 ml filling rate	35	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 18 months from production date if stored in unopened packaging in a cool and dry place at +5 °C to +30 °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

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.

Lighter construction elements must be firmly fixed before application of the foam due to formula's high post expansion.

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.

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