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TECHNICAL DATA PU-FOAM CONSTRUCTION

PRODUCT DESCRIPTION

PU Foam Construction is a moisture-curing, one component polyurethane straw foam. This product is ideal for insulating and filling joints and cavities. Adhesion to almost all surfaces allows for universal application. Adding moisture by pre-dampening accelerates drying and improves the cured foam's cell structure.
This product has been manufactured under the controls established by an audited quality management system that conforms to ISO 9001:2015.

PRODUCT BENEFITS

- universally applicable
- filling, sealing and insulating
- Joint Sound Reduction $R_{S,w}$:
  ✓ 10 mm joint width: ≥ 63 dB
  ✓ 20 mm joint width: ≥ 64 dB
- very low emission (GEV EMICODE EC1 Plus)
- French VOC-Emission Class: A+

AREAS OF APPLICATION

- Window mounting (for clean and controlled backfill as well as insulating and sealing window seams and rolling shutter housings).
- Filling and insulation of joints and cavities in roof extensions and roof insulation.
- Filling smaller wall recesses, conduit penetrations of any kind and other cavities.

PRODUCT FEATURES

PU Foam Construction adheres to all common building materials except polyethylene, silicone, oils and greases, mould release agents or similar substances. The foam can be used at surface and ambient temperatures of +5°C to +35°C. Cured foam is predominantly closed-celled, rot-proof, moisture- and temperature-resistant from -40°C to +80°C. It is aging resistant, however not against UV radiation. The sound insulation values are excellent.

WORK PREPARATION

Surface must be firm, clean, dust and grease free. Remove loose particles **and dampen the immediate area with water before proceeding**. Have the PU-Cleaner ready for cleaning and removal of fresh foam. The ideal working temperature is +20°C. Cans that are too cold can be carefully heated in lukewarm water. **Attention: Never heat above +50°C, as the can may burst. Cans that are too hot, such as those left in a car during summer, can be cooled in cold water, but do not shake!** Screw the straw firmly onto the valve until it stops. Be careful not to activate the valve. **Shake the can well before use (about 30x)**. Repeat the shaking after longer interruptions.

APPLICATION

Fill voids modestly, as fresh foam can expand by about 180%. The foam discharge level can be regulated by varying the pressure on the straw. Carefully press the straw to control the amount of foam. **Apply moisture evenly to the discharged foam. For larger gaps and cavities moistening is recommended after each foam layer**. Applying insufficient moisture and/or cavity overfilling may lead to subsequent unintended foam expansion. Remove fresh foam spots immediately with PU-Cleaner. Cured foam can only be removed by mechanical means.

SHELF LIFE & STORAGE

Standard Valve System (VPG01): 12 months / Safety Valve System (VKS01 / VKS02): 15 months.
The ideal storage temperature is between +10 and +20°C. Considerably higher temperatures may reduce the shelf-life. Cans must be stored **upright** and protected from humidity, frost and heat.
Empty cans should be disposed of in accordance with national regulations.

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SAFETY INSTRUCTIONS

Safety Data Sheet is available.

TECHNICAL DATA

Measured at + 23°C, 50% relative humidity, according to FEICA test methods & EN 17333.

Application temperatures (surfaces and ambient)	minimum	+ 5°C	Post expansion (35-mm-joint width) (EN 17333-2.3)	dry	~ 180 %
	optimal	+ 20°C			
	maximum	+ 35°C	Tensile strength (EN 17333-4.2)	dry	~ 165 kPa
Application temperatures of can	minimum	+ 5°C		moist	~ 135 kPa
	maximum	+ 30°C	Elongation at break (EN 17333-4.2)	dry	~ 12 %
Foam colour	yellowish			moist	~ 16 %
Cell structure	medium to fine		Shear strength (EN 17333-4.3)	moist	~ 55 kPa
Free foamed density (EN 17333-1.3)	dry	~ 27 kg/m3	Compression strength (at 10% compression) (EN 17333-4.1)	dry	~ 45 kPa
Tack free time (EN 17333-3.2)	dry	~ 12 min		moist	~ 35 kPa
Cutting time (EN 17333-3.1)	dry	~ 150 min	Temperature resistance of a cured foam	- 40°C to +80°C (short term up to +100°C)	
Fully loadable (30 mm bead)	~ 12 hours		GEV EMICODE	EC1 PLUS very low emission	
Sagging behaviour and max. joint width (EN 17333-3.3)	dry (+5°C)	Grad 3 up to 40 mm	French VOC-Emission Class	A+	
Joint yield (EN 17333-1.1; dry application)	750 ml	up to 20 m	Construction Material Class according to DIN 4102 Part 1	B3	
Total foam yield (EN 17333-1.2/ moist application)	750 ml	up to 40 litres	Joint Sound Reduction	joint width 10 mm: ≥ 62 dB joint width 20 mm: ≥ 62 dB	
Brittleness (FEICA TM 1008 / dry application)	+5°C / 1.5h / 24h	1 / 1			
Dimensional stability (EN 17333-2.1)	dry	± 5 %			
	moist	± 5 %			
Curing pressure (EN 17333-2.2 / moist application))	after 2.8 h	~ 5 kPa			

The information in this data sheet represents laboratory values that may vary based on actual application, and thus represent no guarantee of a given attribute. The variety of specific applications and possible combinations cannot be covered in this description. The user is responsible to gather information accordingly. Specific results cannot be guaranteed due to lack of oversight of application requirements. Tests performed by the individual user are expressly advised in order to achieve the desired results