Technical Data Sheet

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Pattex Universal PU Foam (Winter)

CHARACTERISTICS
One component PU foam for low temperature use, manual straw application

Main applications

- Insulation of window and door frames
- Mounting of window- and door frames, window sills
- Filling of cavities
- Sealing of openings in roof constructions and insulation materials
- Creating soundproof screens
- Filling of cavities around pipes
- Insulating of wall panels, roof tiles
- CFC free

Product features
One-component, moisture cure semi-rigid polyurethane foam with excellent open-closed cells balance and high mechanical strength. Product can be applied up to -10°C temperature. The foam is self-expanding and during the curing process expands about two times. It has excellent adhesion on most building materials including wood, concrete, stone, metal etc. Curing time strongly depends on the conditions. Full mechanical strength is achieved in 24 hours. Yield of the cured foam largely depends on of working conditions – temperature, air humidity, available space for expanding, etc. At minus temperatures the expansion of foam is lower and curing time longer.

APPLICATION INSTRUCTIONS

Substrate preparation
Substrates must be stable, clean and free of substances likely to impair adhesion. To ensure full and even curing of the foam, moisten substrates (brickwork, concrete, limestone) with water spray. Mask off adjacent areas. The surfaces can be moist, but not frosted or iced.

Application temperature

- Working temperature: from -10°C to +35°C.
- Can temperature: from +5°C to +30°C.
- Preferably the can should be stored at room temperature for at least 12 hours prior to use.

Application method

- Shake the can vigorously before use (15 - 20 times). Screw the foaming straw tightly onto the valve. The outflow rate of the foam can be adjusted by pressing and releasing the trigger.
- Dispense the foam sparingly; fill the seal for about 50% as the foam will expand.
- The can might be used in all positions, with the precondition that the foaming is started and ended in upside down position.
- It is vital to repeat shaking regularly during the application, especially when foaming with the can, not in upside down position.
- Remove fresh spots of foam with PU foam cleaner or acetone. Hardened foam can only be removed mechanically.

Limitations

- Limitations to joint maximal width exist in regard of ambient temperature and humidity levels.
- In dry conditions (during winter time, in rooms with central heating etc.), in order to get best foam structure and foam properties it is recommendable to fill gaps and joints in several layers by the application of smaller foam strings (up to 3 - 4 cm thickness) and slightly moisturizing between every layer.
- At very dry conditions, the foam may be brittle directly after the hardening. This brittleness is a temporary effect and disappears after a while or by warming up. Once the foam is flexible, it does not get brittle again even at cold temperatures.
- Single use should be expected.

ATTENTION! Cured PU foam must be protected from UV radiation by painting or applying a top layer of sealant, plaster, mortar, or other type of covering. Adhesion of the product is weak on polyethylene, Teflon® and on some other plastic surfaces.

PROPERTIES

Foam density TM 1002:2014	22-29 kg/m3
Tack free time TM 1014:2013	6-8 min
Cutting time TM 1005:2013	50-60 min
Curing pressure TM 1009:2013	< 30 kPa Post expansion HENK-PU-14.2 120 - 160%
Dimensional stability TM 1004:2013	max ± 20% Testing conditions: moisturised joint
Maximal joint width TM 1006:2013	4 cm Testing conditions: +5 °C 3 cm Testing conditions: +30 °C
Shear strength | Elongation at break TM 1012:2015	70 - 80 kPa | ca 50%
Compression strength 10% TM 1011:2013	35 - 60 kPa
Fire class EN 13501	F
Water absorption 24h EN 1609	max 1 %
Water absorption 28 day EN 12087	max 10 %
Sound insulation EN ISO 10140	Not measured. Approximate value 60 dB might be used for calculation purposes.
Thermal conductivity DIN EN 12667:2001	Not measured. Approximate value 0,037 … 0,040 W/m*K might be used for calculation purposes.
Yield per can TM 1003:2013	750/1000 ml: max 30 L

All measurements on norm. climate (+23 ± 2 °C | RH 50 ± 5%) unless indicated otherwise.

SHELF-LIFE | STORAGE AND HANDLING
Shelf life 15 months from date of manufacture. For longest shelf life avoid storage above +25°C and below +5°C (up to – 20°C for a short period). Always store can with the valve directed upwards. Transportation of individual cans by passenger car: leave the container wrapped in a cloth in the trunk, never in the passengers' compartment

Check separate Storage and Handling Instructions. For safety precautions and disposal instructions, see the corresponding product Material Safety Data Sheet.

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