



# Technical Data Sheet



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## Pattex PU Pro 750ml

### CHARACTERISTICS

One component PU foam.

#### Main applications

- Insulation of window and door frames
- Filling of cavities
- Sealing cavities around pipes
- Bonding wood, PVC, etc.
- Creating soundproof screens
- CFC free

#### Product features

One-component moisture cure semi-rigid polyurethane foam with excellent open/closed cells and good mechanical strength. For use with PU foam gun.

The foam is self-expanding and during the curing process expands about two times. Has excellent adhesion on most building materials including wood, concrete, stone, metal etc.

Yield of the cured foam largely depends of working conditions – temperature, humidity, available space for expanding, etc.

### 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 porous substrates (brickwork, concrete, limestone) with water spray before application. At low temperatures special care has to be taken to avoid freezing of the water on the surfaces. Mask off adjacent areas-with foil. The surfaces can be moist, but not frosted or iced.



### Application temperature

- Working temperature: from +5°C to +30°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 applicator gun tightly onto the can.
- When working with the gun keep the can mainly in upside down position for maximum yield.-The outflow rate of the foam can be adjusted by pressing and releasing gun trigger.
- Dispense the foam sparingly to avoid excess overflows. Repeat shaking regularly during application. This is obligatory when can is used not in the upside down position.
- It is not recommended to remove the gun until the can is totally empty. When replacing the can shake the new can vigorously. Unscrew the empty can and replace it immediately to ensure that there is no air left in the gun.
- After use remove can and immediately clean the gun with a PU Foam Gun Cleaner. 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 moisturising between every layer.

**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 some other plastic surfaces.

### PROPERTIES

Temperature resistance of cured foam	-40 °C to +90 °C, short term peaks up to +120°C.
Foam density	TM 1002:2014 16 - 20 kg/m <sup>3</sup>
Tack free time TM 1014:2013	6 - 9 min Cutting time TM 1005:2013 35 – 40 min Curing pressure TM 1009:2013 < 8 kPa Post expansion HENK-PU-14.2 50 - 100 %
Dimensional stability TM 1004:2013	max +/- 8 % Testing conditions: moisturised joint max +/- 5 % Testing conditions: dry joint
Maximal joint width TM 1006:2013	5 cm Testing conditions: +5 °C
Shear strength   Elongation at break TM 1012:2015	44 - 55 kPa   ca 50 %
Compression strength 10% TM 1011:2013	25 - 50 kPa
Fire class EN 13501	F
Water absorption 24h EN 1609	Not measured. Approximate value max 1 % might be used for calculation purposes.
Water absorption 28 day EN 12087	Not measured. Approximate value max 10 % might be used for calculation purposes.
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	770/1000 ml: max 51 L 750/1000 ml: max 50 L 725/1000 ml: max 48 L

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



### **SHELF-LIFE | STORAGE AND HANDLING**

Shelf life 18 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). Can might be stored in vertical and horizontal position. Avoid accidental rolling and unintended release! Transportation of loose cans by passenger car: leave the container wrapped in a cloth in the trunk, never in the passenger compartment.

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

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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