



# Technical Data Sheet



Technical Data Sheet  
Ref: NRPTX47000TDS  
Issued: 16.04.20  
Number of pages: 3

## Pattex Universal PU Foam



### CHARACTERISTICS

One component PU foam, manual straw application.

#### Main applications

- Filling of cavities
- Insulation of window- and door frames
- 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 good open/closed cells balance and high mechanical strength. The foam is self-expanding and during the curing process expands about 2 to 2,5 times. It has excellent adhesion to 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, 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, dampen porous substrates (brickwork, concrete, limestone) with water spray. 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 adaptor 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 (e.g. 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 dampening surfaces between each application. Single use of the product 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	22-26 kg/m <sup>3</sup>
Tack free time TM 1014:2013	10min
Cutting time TM 1005:2013	50-65 min
Curing pressure TM 1009:2013	< 12 kPa Post expansion HENK-PU-14.2 120 - 190 %
Dimensional stability TM 1004:2013	max ± 5%
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	45 - 65 kPa   ca 40 %
Compression strength 10% TM 1011:2013	30 - 60 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	700/1000 ml: max 32 L 450/1000 ml: max 18 L 600/800 ml: max 28 L 500/650 ml: max 23 L 300/405 ml: max 13 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 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.

### **Henkel Norden AB**

Box 151 22

Gustavslundsvägen 151A

SE-167 15 Bromma, Sweden