



PATTEX ONE 4 ALL PU

Technical Data Sheet v.1, May 2026

1-component PU universal foam adhesive with gun application

CHARACTERISTICS

- One-component efficient universal polyurethane foaming adhesive for various gluing applications.
- Excellent adhesion of the product on different surfaces in combination with the slight filling capability makes that especially suitable on the uneven surfaces.
- The product allows you to finish your work with significantly less effort and helps you saving of your working time.
- Usage of foaming adhesive helps to avoid formation of thermal bridges.
- High bonding strength on most building materials like wood, concrete, stone, metal etc.
- Cures fully within 2 hours, full mechanical strength is reached earliest in 24 hours.
- The yield of the adhesive depends on working conditions – temperature, air humidity, substrate and application.
- Product does not contain CFC-propellants.

APPLICATIONS

- Interior and exterior bonding of common building materials
- Construction of internal walls
- Adhering drywall to wall and studs
- Adhering OSB boards on walls
- Mounting stair steps
- Gluing windowsills
- Installing of decorative elements
- Filling minor cavities
- Fixing roof tiles (only if followed mechanical fixing acc. to the instruction from the tile producer)

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.



Substrate preparation

Clean the surface of any contaminants, such as grease, dirt, bitumen and dust. Make sure that the bonding surfaces are free from loose particles before adhesive is applied. Surfaces can be moist, but not wet, frosted or iced. Remains of anti-adhesive substances, vapour tight paint coats and coatings with low adhesion should be completely removed.

Application temperature

Working temperature: 5 - 35°C.

Can temperature: 5 - 30°C.

Can has preferably to be stored for at least 12 hours in room temperature.

Application method

- Shake the can vigorously before use (15 - 20 times).
- Remove the plastic cap from the can and screw the can tightly onto the gun.
- Default working position of the can is upside-down guaranteeing the maximal output.
- The can might be used in all positions, with the precondition that the foaming is started and ended in upside down position.
- Dispense the foam sparingly, extruded bead will expand slightly and when compressed between two surfaces, covers the area completely.
- Adjust the amount of adhesive according to the application.
- Usually applying parallel stripes of 10 - 15 cm distance between the stripes onto the area to be glued, is sufficient for good adhesion.
- Fix the lighter details for certain time to avoid dislocation because of additional expansion of the adhesive.
- It is not recommendable to remove the can before it 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.
- If you do not want to replace the can, remove the foam from the gun using PU foam cleaner.
- Hardened foam can only be removed mechanically.

Dispense the adhesive sparingly, according to **application instructions** by application type on page 2.

APPLICATION INSTRUCTIONS ACCORDING TO TYPE OF APPLICATION

Gypsum boards – easy positioning and fast fixing

- Apply adhesive in parallel stripes (15 cm distance between the stripes) along the horizontal edges of the board.
- Keep 5 cm distance from the edges & fix the boards within max. 3 minutes after application.
- After exact positioning, press the board against the surface.
- Apply a constant pressure on the board for approx. 5 min.
- After that mechanical stabilization can be removed.
- Leave to cure for at least 2 hours before applying loads.
- Continue with the next working steps approx. 2 h after the fixation.
- Full bond strength will be achieved in 5 days.

Windowsills – thermal insulation and work on uneven surfaces

- Apply adhesive in 2 - 3 parallel stripes along the horizontal edges of the sill.
- After exact positioning, press the board gently against the surface and fix it for 45 - 60 minutes.

Stair steps – “one stop” solution for fixing

- Put the stair steps on wooden spacers to adjust the correct position.
- Use two spacers at the edges for small steps and a third one in the middle for bigger steps.
- Apply adhesive in parallel stripes (10 - 15 cm distance between the stripes) along the stair steps.
- Place the stair step on its place within 3 minutes after application.
- After exact positioning, press the board gently against the surface.
- Put at least 20kg weight onto the stair step and leave it for 45 - 60 min to avoid lifting.

Construction of the non-loadbearing wall

The first row of blocks is set into the mortar bed or firm surface and aligned precisely by using a spirit level and a rubber mallet. Blocks that are not perfectly or potential surface irregularities need to be abraded with the sanding board. Before the adhesive is applied the surface needs to be cleaned thoroughly (especially dust and loose particles must be removed). The blocks need to be dry. Moistened blocks would lead to a reduction of the processing time (time between application of the adhesive and the setup of the bricks). The adhesive is cured after 2 hours.

On top of the horizontal joint and on the frontal surface of the blocks 1 or 2 adhesive beads (diameter of the bead: 2 - 3 cm) are applied depending on the thickness of the wall. Regarding a wall with a thickness of up to 100 mm one bead in the centre is sufficient, whereas a wall thicker than 100 mm requires two parallel beads with a distance of 30 - 50 mm in between.

The expansion adhesive should be evenly applied in the middle of the layers. Excess adhesive is pressed out when the next layer of blocks is applied.

Corrections of the position of the block need to be effectuated immediately after applying by using a rubber mallet. The aerated concrete blocks should be installed within 1 minute after applying the adhesive. Once a block is put on the wall it should not be removed anymore, otherwise the adhesive beads have to be renewed. Please be aware of the respective valid norms, laws and technical guidelines of each country for the prescribed masonry association.



TECHNICAL DATA

Adhesive density, kg/m ³ EN 17333-1, method 1	15 - 19
Tack free time, min EN 17333-3, method 2	5 - 7
Open time, min HENK-PU-28.1	< 5
Cutting time, min EN 17333-3, method 1	25 - 30
Curing pressure, kPa EN 17333-2, method 2	< 10 Testing conditions: 8 mm thickness
Bond strength, MPa EOTA TR46 method 4.1	> 0.08
Shear strength Elogation at break, kPa % EN 17333-4, method 3	55 - 65 ca 50
Fire class EN 13501-1	F Exception: E only in joints ≤ 10 mm
Yield per can, m ITSC 001	Up to 30 Testing conditions: Ø 2-3 cm bead Not measured.
Water absorption 24h EN 1609	Approximate value max 1 % might be used for calculation purposes. Not measured.
Water absorption 28 day EN 12087	Approximate value max 10 % might be used for calculation purposes. Not measured.
Thermal conductivity DIN EN 12667:2001	Approximate value 0,037 ... 0,040 W/m*K might be used for calculation purposes.

Temperature resistance of cured adhesive: -40°C ... 90°C, short term peaks up to 110°C.

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

GENERAL INFORMATION

Storage

Always store can with the valve directed upwards. Transportation of odd 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 Safety Data Sheet.

Shelf-life

Best before 15 months.
For longest shelf life avoid storage above 25°C and below 5°C (up to -20°C for a short period).

Packaging

750 / 1000 ml

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.

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