

PU-18P

Revision: 1/09/2020

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Technical data

Basis	Polyurethane
Consistency	Paste
Curing system	Chemical curing
Potlife	Ca. 40 min
Density**	Ca. 1,4 kg/L
Viscosity (Brookfield)	Ca. 24.000 mPa.s
Total solid content	100 %
Mixing ratio	A:B = 7:1
Component A	
Component A consistency	Paste
Component A density	Ca. 1,50 kg/L
Component A viscosity	Ca. 28.000 mPa.s
Component A colour	Brown
Component B	
Component B consistency	Liquid
Component B density	Ca. 1,20 kg/L
Component B viscosity	Ca. 200 mPa.s
Component B colour	Brown
Temperature resistance**	-30 °C → 100 °C
Application time	Ca. 45 min
Open time (23°C, 55% RV)*	Ca. 50 min.
Shear strength**	> 3N/mm ²
Can be loaded after*	Ca. 24 h
Tooling time*	Ca. 24 h
Application temperature	5 °C → 35 °C
Consumption*	1 - 1,3 kg/m ² , depending on the trowel

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

PU-18P is a solvent and water free two component polyurethane adhesive for bonding engineered and solid parquet. Excellent adhesion on most common substrates, also for underfloor heating.

Properties

- Free of solvents and water
- Easy to tool
- High end strength
- Fast strength build-up.

Applications

- PU-18P is suitable for indoor bonding of all types of wooden floors such as solid, stab, pre-finished, and on-end parquet, wood-plank and wood-block including laminates and exotic timbers.
- Suitable for use on porous substrates such as concrete, screeds, wood, mosaic, chipboard and OSB Board (large particle size chipboard).

Packaging

Colour: brown

Packaging: 6 kg, 10 kg

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Shelf life

At least 12 months in original, unopened packaging at a cool and dry storage place, between +5°C and +25°C.

Substrates

Nature: PU-18P should be applied on a rigid, clean, permanently dry, dust and grease free surface which do not contain any loose parts, paint, wax, oil or other contaminants.

Irregularities such as remaining concrete leveling, old adhesives may adversely affect adhesion. These need preferably to be removed mechanically for example by sanding or blasting. The top layer of anhydrite subfloors has to be removed.

Before installation of the parquet, the substrate should be checked to ensure it is suitable.

Check the moisture content throughout the entire thickness of the substrate with a carbide or electric hygrometer. Note that an electric hygrometer only gives indicative values. The moisture content must correspond the recommendation of the floor manufacturer (generally max. 2% for sand cement substrates and max. 0,5% for anhydrite, measured with a carbide hygrometer. For substrates with underfloorheating the values are resp. max. 1,5% and 0,3%). We recommend a preliminary adhesion test on every surface.

Application method

PU-18P should be acclimatised to room temperature before installation. Pour the full package of Component B into the container of Component A. Use an electric drill with mixing paddle to ensure thorough mixing and to achieve a homogeneous mixture. Always mix one package at the time (A-component + B-component). Every deviation of this mixture ratio will adverse the curing of the adhesive and the final mechanical properties. PU-18P must be applied within 50 minutes after mixing. For parquet sizes smaller than 60mm wide and 300mm long, Soudal notched trowel B3 is recommended. Do not apply more to the surface than can be covered with parquet within 60 minutes. Slide the parquet onto the

adhesive layer and tap into place or tamp down with a rubber hammer. A minimum of 80% contact coverage is required to ensure the adhesion of the parquet. If necessary load the parquet with weight. Wait at least 24 hours before sanding and finishing the parquet.

Cleaning: PU-18P can be removed before curing from tools and material with Soudal Adhesive Cleaner 90A, Swipex or white spirit. Cured PU-18P can only be removed mechanically.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account.

Wear gloves. Consult label and material safety data sheet for more information.

Remarks

- Do not dilute the adhesive.
- Never apply on a substrate which is not protected against rising damp. If necessary apply a moisture sealer such as Soudal EPR-31P.
- Never install flooring on a substrate which contains too much moisture or on substrates with a higher humidity value than recommended by the wood supplier.
- Minimum temperature of the substrate should be at least 15°C.
- Do not apply the adhesive when the relative humidity is above 75%.
- Never install wood which is too dry (<7% humidity). It can expand at higher humidity and cause damage.
- Do not install if the walls and ceilings of the area are not dry (e.g. after plastering or painting etc.)

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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