



## PU-20P PARQUET ADHESIVE

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### Product:

PU-20P is a solvent-, and water-free universal 2-component polyurethane adhesive for bonding all types of wooden floor.



### Technical data:

Base	2-component polyurethane
Curing system	Chemical curing
<b>A-component</b> Consistency Colour Specific gravity (DIN 53479) Brookfield viscosity (mPa.s)	Paste Pale brown/ dark brown Approx. 1,5 g/cm <sup>3</sup> Approx. 28.000 (HBT A/20)
<b>B-component</b> Consistency Colour Specific gravity (DIN 53479) Brookfield viscosity (mPa.s)	Liquid Brown Approx. 1,2 g/cm <sup>3</sup> Approx. 200
<b>Mixture</b> Ratio Consistency Colour Specific gravity (g/cm <sup>3</sup> ) Brookfield viscosity (mPa.s)	A:B = 82:18 Paste Pale brown/ dark brown Approx. 1.4 Approx. 24.000
Pot-life at 21°C and 50% RH	50 – 55 minutes
Open time at 21°C and 50% RH	60 – 70 minutes
Adjustability time at 21°C and 50% RH	90 – 120 minutes
Set to load bearing	Approx. 24 h
Sandpapering/finishing	Approx. 24 h
Shore D Hardness (A+B)	Approx. 45
Shear strength (DIN281b) wood/wood	>3N/mm <sup>2</sup>
Temperature resistance	-30°C to +100°C (cured)
Durability against ageing	Excellent
Total solids content	100% (solvent free)
Application rate	Depending on the subfloor 800 – 1000 g/m <sup>2</sup> by use of the SOUDAL-notched trowel for parquet

\* This varies according to ambient conditions such as temperature, humidity, substrate etc.

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**Characteristics:**

- Solvent free
- Water free
- Very easy to apply
- Forms stable peaks once applied by a notched trowel or spreader comb
- Rapid build up of bond strength
- Very high final bond strength
- Hard-elastic
- Good 'gap filling' characteristics
- Does not shrink
- Suitable for all kinds of wood, including moisture sensitive types
- Not affected by fungus or bacteria

**Applications:**

PU-20P 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 and non-porous surfaces such as concrete, screeds, wood, chipboard and large particle size chipboard, including floors with underfloor heating.

PU-20P is also extremely suitable for bonding moisture sensitive wood onto moderately porous surfaces.

**Description:**

PU-20P cures by means of a chemical reaction within the adhesive. Fully cured (approx. 24 h at 21°C and 50% RH) a hard-elastic and non-shrinkable adhesive layer is formed, which is moisture and heat resistant. The adhesive has excellent adhesion to practically all common substrates used in the construction industry. PU-20P contains no water or solvents, minimising the risk of deforming the parquet to a minimum.

**Shelf life:**

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°.

**Substrate:**

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. The moisture content must be as recommended by the flooring manufacturer (generally max. 2% for sand cement substrates and max. 0,5% for anhydrite, measured with a carbide hygrometer. For substrates with underfloor heating the values are resp. max. 1,5% and 0,3%)

PU-20P should be applied to an even, dry, clean and smooth substrate, which is also free from irregularities and cracks. Old adhesive remains may adversely affect the adhesion and must be removed mechanically. Loose or damaged surfaces must be repaired before the application of the adhesive. Uneven surfaces must be equalised with a screed.

Very porous mineral surfaces should be treated (after consulting our technical service) with **Soudal WBPR-11P** surface primer.

Powdery surface can be treated (after consulting our technical service) with **Soudal WBPR-21 Deep Primer**.

Subfloors with a higher moisture content than described above can be treated (after consulting our technical service) with **Soudal EPR-31P**.

Smooth surfaces like anhydrite should be roughened and disposed of the top layer. Sanded subfloor must be vacuum cleaned with an industrial vacuum cleaner.

***A preliminary compatibility test is recommended on every surface***

**Parquet:**

The parquet flooring must be acclimatised for several days in the area where it is to be installed. Leave the parquet in its original packaging until installation to avoid any deformation.

Check before installation that the moisture content of the wood is as recommended by the supplier, (generally 9% +/- 2%). If the humidity of the wood is more than 11% installation is not recommended

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Allow a gap of 1 to 1,5 cm around the perimeter of the laid parquet, including any columns or structures, which penetrate the floor.

### Applying the adhesive:

PU-20P should be acclimatised to room temperature before installation. Pour Component B into the container of Component A and mix the components for at least 2 minutes. Use a variable speed electric drill with a mixing paddle attachment. Ensure thorough mixing to achieve a homogeneous mixture.

Always mix one package at the time (A-component + B-component). **Never deviate from the prescribed mixing ratio between A- and B-component.** Every deviation of this mixture ratio will adversely affect the curing of the adhesive and the final mechanical properties.

PU-20P must be applied within 60 minutes after mixing.

Apply the adhesive by means of **SODAL** notched trowel N° 11 to the surface (for parquet dimensions smaller than 60 x 300mm use SODAL trowel N°3). 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 parquet adhesion. Loading the parquet with weights will improve the final bond strength. Wait at least 24 hours before sanding and finishing the parquet.

Uncured PU-20P may be removed from tools and parquet with SODAL Adhesive cleaner. Cured adhesive must be removed mechanically.

### Recommendations:

- Never install to substrates, which are not protected against possible rising damp.
- Never install onto a substrate which contains too much moisture or onto substrates with a higher humidity value than recommended by the wood supplier.
- Do not apply the adhesive at temperatures below 15° or above 25°C
- 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). This 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.)
- Apply the adhesive within 60 minutes after mixing both components. Do not apply the adhesive if it has become too thick to trowel easily onto the substrate.
- Do not dilute the adhesive.

### Health and safety recommendations:

Apply the usual industrial hygiene precautions. Wear protective gloves. Consult the label for more information.

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