



Bona R778

2-comp. polyurethan parquet adhesive



Bona R778 is a two-component polyurethane parquet adhesive according to DIN EN ISO 17178 (hard). It does not contain water or organic solvents. The adhesive hardens by a chemical reaction without shrinking. R778 is especially suitable for timbers extremely sensitive to swelling (moisture) and for low / non-absorbent substrates.

- Water and solvent free
- No swelling of the wood
- Excellent adhesion to almost all substrates and timber materials
- Firm texture – retains trowel pattern
- Long open time

Technical Data

Base: Mixture of polyols and pMDI

Color: beige **Viscosity:** Easy to apply

Open time: ca. 120 min*

Pot life: ca. 50 min*

DIN EN ISO Category: Har

GISCODE: RS10

EMICODE: EC1 Plus

Affset: A+

DIBt: Z-155.20-277

Cleaning agents: Bona Cleaning Wipes, Bona S100, acetone, ethanol. hardened adhesive can only be removed mechanically.

Curing time: 24 hrs*,

Surface treatment: after ca. 24 hrs.*

Storage/Transport: The temperature must not fall below +10°C or exceed +25°C during storage and transport. Store in a dry, well ventilated place. Preserve from frost

Pack size: Comp. A 9.03 kg bucket + 0.97 kg bag with comp B. (packed separate)

Shelf life: 12 months from date of production in unopened original container

Disposal: Wastes and emptied container/tubular bags, should be handled in accordance to local regulations

* at 20°C and 55 % rH.

Additional detailed information is noted in the appropriate Safety Data Sheet.

Subfloor Preparation

The substrate must in general be even, dry**, clean, free from cracks and physically sound. The surface should also be slightly textured. Thoroughly vacuum off loose material and dust. If applicable, it must meet the requirements of local standards or codes of practice (e.g. DIN 18356 “Working with wood flooring”, Ö-Norm B2218). If necessary, it should be professionally prepared for laying. Separating layers, adhesion reducing layers such as



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paints, varnishes and adhesive residues, old levelling compounds, old floor coverings etc. must be sufficiently removed by brushing, abrading, grinding or shotblasting. The use of a primer is typically not needed. If the sub floor is problematic (weak, high residual moisture content, etc.) the use of a primer like Bona R540, R410 or R590 can improve it. Uneven substrates must be levelled with Bona H600, H610 (filling of holes), or H660. If in doubt, get in contact with your local Bona technical service. Note: Bona R778 is suitable in association with under floor heating. Such floors need to pass the heating up protocol to drying up the screed! During installation and three days after the screed temperature must not pass 25°C

**moisture reading of the subfloor must be carried out in correlation with local standards and codes of practice (e.g. ASTM F 2170 Test Method, BS 8201:2011, TKB KRL method, CM-measurement, etc.)

Suitable Subfloors

- Cementitious screed (CT) according to EN 13813
- Floors levelled with levelling compounds (at least 2 mm thick,
- Calcium sulfate screed (CA) according to EN 13813
- New chipboards (P4-P7) or OSB 2 – OSB 4 boards, screwed tightly
- Other dry and sound sub floors
- Mastic asphalt screed (AS) according to EN 13813
- Concrete

Processing

Before using the adhesive, the following climatic conditions must be met (values for Central Europe): Air temperature: min. 18°C, Floor temperature: min. 15°C (with underfloor heating max. 20°C), R.H: max. 70 %. The adhesive itself must, if necessary, be brought to the right temperature. The resin and hardener components are supplied in the correct proportions. Add component B (packed separately) completely to component A (bucket) and mix

thoroughly by using a drilling machine with a stirrer, until a uniform color is achieved. The pot life of the mixed adhesive is 50 minutes and it is therefore important that the laying operation is planned to ensure that the adhesive can be used within this time. The adhesive should be applied evenly using a notched trowel appropriate to the flooring being laid (see below). The parquet should be laid on the adhesive and pressed down firmly during the open time of approx. 120 minutes. After 24 hours it is possible to apply load or stress to the floor. Sanding and the application of a surface coating may be carried out after 24 hours depending on the type of parquet, absorbency of the substrate and room climate.

Depending on the expected average conditions the parquet needs, for the best adhesion, the correct moisture content of the wood to be selected. Solid wood parquet should be slightly more humid whilst multi-layered or prefinished parquet should be slightly drier. E.g. in Central Europe average room conditions of 20°C and 50 % relative air humidity can be expected. Solid wood parquet shall have therefore, in general, an average humidity of 9 % whereas multi-layered and prefinished parquet shall have in average 8 %. Typical deviations from the average are +/- 2 %. Where doubts exist, avoid too dry material. Please also refer to the instructions for use provided by the parquet manufacturer.

Consumption

Bona Trowel 850 F or 850 G
(TKB B3/B6, ISO 6076 12T/11T)
Usage: approximately 850 g/m ²
Mosaic parquet

Bona Trowel 1000 F or 1000 G
(TKB B8/B10, ISO 6076 14T/16T)
Usage: approximately 1000 g/m ²
2 layered prefinished parquet



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Bona Trowel 1250 F or Bona 1250 G
(TKB B11/13, ISO 6076 16T/20T)
Usage: approximately 1250 g/m ²
22 mm strip flooring
23 mm industrial parquet
3 layered prefinished parquet

Bona Trowel 1500 F or Bona 1500 G
(TKB B14/B16, ISO 6076 22T/24T)
Usage: approximately 1500 g/m ²
22 mm solid planks

(F = fine, G = coarse)

Use a fine trowel for small pieces of wood and/or smooth substrates, and a coarse trowel for large pieces of wood and/or less smooth and rough surfaces.

As of 24 August 2023, adequate training is required before industrial or professional use of this product. Further information available at www.feica.eu/PUinfo or www.safeusediisocyanates.eu

Bona takes only responsibility for the delivered product, no responsibility can be taken for the total installed product. If in doubt, conduct a test or a trial. Observe also other Bona product datasheets.