

Bona R778

Technical data sheet

Bona R778 is a two-component polyurethane parquet adhesive according to EN 14293 (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

Product type:	Mixture of Polyols and pMDI
Colour:	Component A: beige, Component B: brown
Viscosity:	Easy to apply - stable
Density:	1.7 g/cm ³
Giscode:	RU1
Cleaning:	S100, acetone and ethanol. Hardened adhesive can only be removed mechanically.
Storage / transport:	The temperature must not fall below +5°C or exceed +25°C during storage and transport. Store in a cool, dry, well ventilated place.
Shelf life:	12 months.
Pack size:	9 kg buckets + 1 kg bag with hardener (60 per pallet)

Preparations

The substrate must in general be even, totally dry, clean, free from cracks and physically sound. The surface should also be slightly textured. If applicable, it must meet the requirements of local standards or codes of practice. If necessary it should be professionally prepared for laying. Problematic sub floors (e.g. weak surface, missing damp proof membrane) should be primed with Bona R410. Uneven floors should be levelled with Bona H600, H610 (filling of holes), H620, H650. Suitable substrates (also in association with underfloor heating) are:

- Cementitious screed (CT) according to EN 13813
- Floors levelled with cement based levelling compounds (at least 2 mm thick)
- Calcium sulfate screed (CA) according to EN 13813
- Chipboard V100
- Mastic asphalt screed (AS) according to EN 13813 with intact sand surface
- Wooden substrates

Application

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 (in a separate bag) completely to component A (bucket) and mix thoroughly, e.g. using a drilling machine with a stirrer, until a uniform colour is achieved. The pot life of the mixed adhesive is 40 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, approx. 110 minutes.

If some adhesive is pressed up in joints (so that it might come into direct contact with the finish) it must be carefully removed (the adhesive will eventually get a dark discoloration).

Fastening



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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.

Consumption/parquet types

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.
Bona 850 F or Bona 850 G

Usage approximately 950 g/m²:

- Mosaic parquet and similar 1 layered prefinished parquet

Bona 1000 F or Bona 1000 G

Usage: approximately 1150 g/m²:

- 10 mm solid parquet
- 22 mm strip flooring
- 2 layered prefinished parquet
- 3 layered prefinished parquet - strips

Bona 1250 F or Bona 1250 G

Usage: approximately 1400 g/m²:

- 22 mm strip flooring
- 3 layered prefinished parquet, boards
- massive boards

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. (F = fine, G = coarse)

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.