



HARD

Technical Data Sheet

Bona R870

Hard Parquet Adhesive

Bona R870 is a, according to ISO 17178 (hard), 1-component silane based adhesive for the shear resistant bonding of wooden floors. The hardened adhesive is able to withstand thrust during expansion- due to its hardness it will stabilize the floor, especially solid wooden floors. The use of a primer is in general not necessary. The adhesive hardens by a chemical reaction with moisture.

- Hard adhesive
- Shear resistant bonding, similar to 2C PUR parquet adhesives
- No adding of a hardener required
- No addition of liquid extenders or components who can migrate after curing
- Good adhesion to almost all substrates and timber materials,
- Spilt material can be easily removed
- Firm texture – retains trowel pattern
- Rapid initial bonding strength
- Water and solvent free, nearly no swelling of the wood
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Technical Data

Base: silane modified-prepolymer

Colour: beige

Viscosity: Easy to apply - stable

Density: 1.7 g/cm³

Open Time: ca. 40 min*

ISO Category: Hard

GISCODE: RS 10

EMICODE: EC1-R Plus

DIBt Approval: Z-155-10.122

Cleaning agent: Bona Cleaning Wipes, Bona S100, acetone, ethanol. Hardened adhesive can only be removed mechanically.

Drying time: 24 to 48 h

Surface treatment: Depending on air humidity and the moisture content of the materials between 12 and 24 hrs.

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.

Pack Size: 15 KG bucket and 5400 ml (approx. 9.2 KG) tubular bags

Shelf life: Buckets: 12 month / Tubular bags 24 month from date of production in unopened original container/tubular bag

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, 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. A primer is typically not needed. If the sub floor is problematic the use of a primer like Bona D501, R410, R540 or R580 can improve it. A broadcasting of sand into Bona R410 can be omitted, if the surface stays clean and the parquet is glued with R870 within 24 h. Uneven floors should be levelled with Bona H600, H610 (filling of holes), H660 or H670. Note: Bona R870 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!

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Fastening





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Suitable Subfloors

- Cementitious screed (CT) according to EN 13813. In case of accelerated systems, please get in contact with your local Bona technical support.
- Floors levelled with levelling compounds (at least 2 mm thick, resistant against plasticizer migration)
- Calcium sulfate screed (CA) according to EN 13813
- Chipboard, OSB board
- Other dry and sound sub floors
- Mastic asphalt screed (AS) according to EN 13813 (well sanded)

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. After opening the bucket remove the protective foil and hardened adhesive at the edges. 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. 40 minutes. If on the sub floor applied adhesive has a skin, remove adhesive and apply new. If some adhesive is pressed up in joints (so that it might come into direct contact with the finish) it must be carefully removed. 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. Prefinished parquet shall have in average 8 %, solid parquet 9 %. 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 & Parquet Types

Mosaic parquet

Usage: approximately 850 g/m², Bona Trowel 850 F or 850 G

2 layered prefinished parquet

Usage: approximately 1000 g/m², Bona Trowel 1000 F or 1000 G

22 mm strip flooring

23 mm industrial parquet

3 layered prefinished parquet

Usage: approximately 1250 g/m², Bona Trowel 1250 F or Bona 1250 G

Solid planks

Usage: approximately 1500 g/m², Bona Trowel 1500 F or Bona 1500 G

(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.

The adhesive consumption during the application with the Bona OptiSpread system depends mainly on the walking speed as well as the adjusted air pressure (OptiSpread 100, OptiSpread 2.0). Please refer to respective machine manual.

Surface Treatment

Sanding and the application of a surface coating may be carried out after after 12-24 hours. After 24-48 hours it is possible to apply load or stress to the floor. The drying time depends on the type of parquet, the absorbency of the substrate and the climate conditions.

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.

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