



# Bona R820



**Bona R820** is an according to EN ISO 17178, hard-elastic 1-component silane-based adhesive for the installation of engineered and dimension stable solid parquet floors.

- Good adhesion to almost all substrates and timber materials
- Good initial bonding strength
- Balanced shear strength and elasticity
- Good rib stability
- Very low emissions EMICODE EC1 Plus

## Technical Data

**Base:** Silane modified-prepolymer.

**Color:** Beige

**Viscosity:** Easy to apply

**Open time:** ca. 60 min\*

**EN ISO 17178:** Hard-Elastic

**GISCODE:** RS 10

**EMICODE:** EC1 Plus

**Affset:** A+

**DIBt:** Z-155.10-617

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

**Curing:** 24 to 48 h\* walkable: after ca. 12 hrs.\*

**Surface treatment:** after ca. 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.

**Packaging:** 15 kg bucket, 4.5 kg tubular bag

**Shelf life:** 12 months / 24 month from date of production in unopened original container/tubular bag

**Disposal:** Wastes and emptied containers must be handled in accordance to local regulations

\* at 20°C and 55 % rH.

## 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 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 D501, R540 or R590 can improve it. Uneven substrates must be levelled with Bona H600, H610 (filling of holes), or



# Bona R820

H660. If in doubt, get in contact with your local Bona technical service. Note: Bona R820 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
- Calcium sulfate screed (CA) according to EN 13813
- Floors levelled with levelling compounds (at least 2 mm thick, resistant against plasticizer migration)
- New chipboards (P4-P7) or OSB 2 – OSB 4 boards, screwed tightly
- Other dry and sound sub floors such like gypsum fibre boards
- Mastic asphalt screed (AS) according to EN 13813 and other sub floors which are affected by migration of plasticizers must get a protective layer of Bona R410 or Bona R540
- 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. 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. 60 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. Adhesive spills on prefinished surfaces should be removed with Bona Cleaning Wipes.

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

Engineered wooden floors, Solid parquet types made of oak or other similar wood species with low movement such as mosaic parquet, industrial parquet 16 & 23 mm, strip flooring with groove and tongue (max. 22 x 80 mm)

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

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

Bona Trowel 1250F or Bona 1250G  
(TKB B11/13, ISO 6076 18T/20T)  
Usage: approximately 1250 g/m<sup>2</sup>  
3-layered prefinished parquet, strip flooring

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.



# Bona R820

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.

27.06.2024 With the publication of this data sheet all previous product information on this product lose their validity