



Bona R820



Bona R820 is a hard-elastic (according to EN ISO 17178) 1-component silane-based adhesive for the installation of engineered and solid timber floors, including overlay, block 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

Product type:	Silane modified-prepolymer.
Colour:	Beige / light brown
Open time:	ca. 60 min*
Sanding:	Allow a minimum 12 hours at 25° C / 60% RH
Surface treatment:	Up to 2 days depending on the style of flooring and site conditions
Application tools:	Notched floor trowel – appropriate to the flooring type
Application rate:	Standard installation: 1 – 1.5 Kg / m ²
Safety:	Please consult the Safety Data Sheet
Cleaning:	Acetone or Ethanol. Hardened adhesive can only be removed mechanically.
Waste:	Dispose of in accordance with local regulations.
Shelf life:	24 months tubular bag 12 months bucket From date of production in unopened original container
Pack size:	6 Kg tubular bag – Box quantity 3 x 6 Kg 18 Kg bucket
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.
Certificates:	GISCODE: RS 10 EMICODE: EC1 Plus Affset: A+



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Subfloor Preparation

The substrate must be even, totally dry, clean, free from cracks, physically sound and have a slightly textured surface. Cementitious screeds must be sanded, and vacuum cleaned thoroughly. If applicable, it must meet the requirements of local standards or codes of practice. Adhesive residues, levelling compounds, paints, grease etc. which can affect the adhesion of the following applications, must be completely removed using an appropriate method, such as. Bona FlexiSand with Diamond segments. Clean the substrate thoroughly afterwards.

The use of a primer is typically not needed. If the subfloor is problematic (weak, high residual moisture content, etc.) the use of a primer / moisture barrier, like Bona R540, can improve it. Uneven substrates must be levelled prior to R820 being used. NB Deficiencies in the subfloor should not be remedied by using excess amounts of adhesive.

Bona R820 is suitable for use in association with underfloor heating. New floors must have had the underfloor heating system fully commissioned, prior to installation of the wood floor. During installation and for a minimum of three days after completion the screed temperature must not be higher than 25° C.

Suitable Subfloors

- Cementitious screed / concrete
- Calcium sulphate screed
- Floors levelled with levelling compounds (minimum 2 mm thick, resistant against plasticizer migration)
- New chipboard / OSB boards / plywood, etc. The subfloor must be firm and stable.
- Other dry and sound subfloors

Application

For the optimum performance the following climatic conditions should be met.

- Air temperature: min. 18° C
- Floor temperature: min. 15° C (underfloor heating max. 20)
- R.H: max. 70 %

If lower temperatures or higher humidity is experienced drying / curing periods may be extended.

NB. It is important that measurement of the moisture content of the subfloor is carried out to a high standard. Assessment of the suitability and selection of a treatment schedule is the responsibility of the flooring contractor. A specification with a greater level of protection against moisture should be used where doubt remains regarding the moisture content of the floor.

If using a tubular bag, snip off the sealing ring and using a Bona applicator to squeeze out adhesive from the tube. After use, if unfinished, the bag can be tightly sealed, using a cable tie, and reused at a later date.

If using a bucket after opening, remove the protective foil and any hardened adhesive at the edges. If the bucket is not completely used at the end of application the foil must be replaced and pressed tightly against the remaining adhesive.



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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*. Do not apply to a larger area than can be installed well within the open time. If applied adhesive remains unused and develops a skin, remove the adhesive, and apply new material. Adhesive which is pressed up in joints (so that it might come into direct contact with the finish) must be carefully removed, as must adhesive on prefinished surfaces.

Consumption

It is important that timber is laid at the correct moisture content and in accordance with current Australian standards. The application rate of the adhesive is vitally important as the movement of timber of different dimensions produces varying amounts of stress upon the bond to the subfloor. Ensure that the correct coverage rates and even spread of the adhesive are achieved. Bona application trowels are available in the required sizes

Type	Dimensions mm	Coverage rate R820 g / m ²
Overlay (end matched and butt edged)	12 mm – up to 86 mm 14 mm – up to 105 mm	1000 g / m ²
Parquet blocks	19 mm – up to 125 mm	1000 g / m ²
Secret nail profile	80 x 19	Nailed & Glued: 850 g / m ² Glued only: 1250 g / m ²
Top nail profile	180 x 21 130 x 19	R820 along joists or battens
Engineered prefinished planks	2 layer 3 layer	1000 g / m ² 1250 g / m ²
Acoustic matting Bona silane adhesives are suitable for the installation of most acoustic underlays based on granules of rubber and cork with PU elastomer bonding agent. It is recommended that trial applications are made to ensure that the adhesion is satisfactory		850 - 1000 g / m ²



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Outside of the advice noted above it is not generally recommended that solid timber with a depth to width ratio greater than 1:6 is laid using Bona R820 as the sole fixing method. Timber elements with a greater ratio may be more prone to gaps forming at the joints during extended periods of high temperatures and / or low humidity.

Surface Treatment

Sanding (minimum 12 hours) and the application of a surface coating may usually be carried out after a minimum 24 hours has elapsed. However, depending on the type of parquet, absorbency of the substrate and the prevailing atmospheric conditions a period of up to 2 days may be required. After 24 – 48 hours the floor may be used.

The information in this document and all other advice and recommendations that we provide to help and assist the applicator are based on previous experience and extensive testing but makes no claim to be complete. Because of the wide range of possible uses and conditions of application of our products, we do not relieve users from the need to carry out their own trials or to seek technical advice from Bona before use. Bona can only guarantee its products and not the construction as a whole. Observe recommendations from flooring manufacturer and the provisions of relevant standards.