Bona R848

Technical Data Sheet

Product Description

Bona R848 is an elastic; according to EN 14293 (soft); 1-component Silane based adhesive for different kinds of wooden floors. Tensions to the sub floor are reduced. The use of a primer is in general not necessary. The adhesive hardens by a chemical reaction with moisture.

Properties

- 1-component, easy to handle
- Excellent initial "green grab" means the flooring stays in place
- Rapid shear strength development – Flooring is ready for furniture and foot traffic in one day
- Water and solvent free, nearly no swelling of the wood
- Good adhesion to almost all substrates and timber materials, splashed material can be easy removed
- Firm texture – retains trowel pattern
- Easy to clean – Will not harm the finish on pre-finished trim and floors; will not stain hands

Technical Data

Base:	Silane modified-Prepolymer
Colour:	Beige
Viscosity:	Easy to apply - stable
Density:	1.56 g/cm³
Shear Strength (according to EN 14293):	1.6 N/mm²
GISCODE:	RS 10
EMICODE:	EC1-R Plus
Cleaning agent:	S100, acetone, ethanol. Hardened adhesive can only be removed mechanically.
Application of load:	24 to 48 h
Storage / transport:	The temperature must not fall below +5°C or exceed +25 during storage and transport. Store in a cool, dry, well ventilated place.
Shelf life:	12 months or 24 month in sausages!
Pack size:	24 kg (32 per pallet) and 15 kg (44 per pallet) buckets 4 x 2810 ml sausages 6 x 1800 ml sausages 12 x 600 ml sausages

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 R848 within 24 h. Uneven floors should be levelled with Bona H600, H610 (filling of holes), H660 or H670. Suitable substrates (also in association with under floor heating) are:

Suitable Subfloors

- Cementitious screed (CT) according to EN 13813
- Floors levelled with levelling compounds (at least 2 mm thick, resistant against plasticizer migration)
- Calcium sulfate screed (CA) according to EN 13813

- Chipboard V100, Plywood, OSB
- Other dry and sound sub floors
- 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.

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. 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. 30 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 %. 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
Bona 850G or Bona 850F
Usage: approximately 900 g/m²
-Mosaic parquet or any other similar solid parquet
Bona 1000 F or Bona 1000 G
Usage: approximately 1100 g/m²:
-2 layered prefinished parquet
-22 mm block parquet
Bona 1250 F or Bona 1250 G
Usage: approximately 1350 g/m²:
-3-layered prefinished parquet, boards
-Solid wood planks (max. 22 x 120 mm**)

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)

Note: The installation of solid wood parquet must be done in accordance to the local standards and suitable site conditions. The adhesive consumption can be higher under some conditions. Uneven or rough surfaces as also longer elements may require the usage of a bigger trowel. Ensure a fully contact to the subfloor.

** The thickness to width ratio should not be higher than 1:6 to prevent heavy deforming behaviours.

Surface Treatment

After approx. 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 -48 hours depending on the type of parquet, absorbency of the substrate and room climate.