

Bona R860

Technical data sheet

Bona R860 is an elastic silane based adhesive for parquet floors according to EN 14293 (soft)/ISO 17178 (hard elastic). It does not contain plasticizers. With its extreme high "green" strength and extreme rapid bonding it is designed special to bond engenerated parquet elements. The bonding process can be accelerated, by spraying little amounts of water on the substrate or spread adhesive. The use of a primer is in general not necessary. Bona R410 or R580 can be used as a primer and damp proof membrane.

- extreme quick setting, controlled by parquet layer
- extreme high initial tack
- plasticizer free
- soft elastic
- water and solvent free, nearly no swelling of the wood
- wood adhesion to almost all substrates and timber materials, splashed material can be easily removed
- firm texture – retains trowel pattern

Technical data

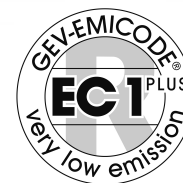
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|----------------------|---|
| Base: | Silane modified-Prepolymere |
| Colour: | Grey |
| Viscosity: | Easy to apply - stable |
| Density: | 1.52 g/cm ³ |
| Cleaning agents: | Bona S100, acetone and ethanol. Hardened adhesive can only be removed mechanically. |
| Application of load: | 4 to 8 h |
| Surface treatment: | depending on air humidity and the moisture content of the materials between 6 to 12 h |
| 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: | 15 kg (44 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. A primer is typically not needed, if the sub floor is problematic (e.g. weak surface, missing damp proof membrane) use Bona R410, Bona R540 or Bona R580. A broadcasting of sand into R410 can be omitted, if the surface of R410 stays clean and the parquet is glued with R860 within 24 h. Uneven floors should be levelled with H600 or H610 (filling of holes). Suitable substrates (also in association with sub floor heating) are:

- Cementitious screed (CT) according to EN 13813
- Floors levelled with levelling compounds (at least 2 mm thick),
- Calcium sulfate screed (CA) according to EN 13813
- Chipboard (V100)
- Other dry and sound sub-floors
- Mastic asphalt screed (AS) according to EN 13813 (with intact sand surface)

Fastening



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Fastening



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 sub floor 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. 20 minutes. To accelerate the bonding process, water can be sprayed on the sub floor or the adhesive (0,5 %, for e.g. 1000 g adhesive you need 5 g of water, mix the water in by spreading the adhesive again with a trowel, open time can then be reduced to 5 minutes, lay in the parquet immediately). 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 should be removed carefully.

After 4 to 8 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 6 to 12 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 850 g/m²:

- Mosaic parquet and similar 1 layered prefinished parquet

Bona 1000 F or Bona 1000 G

Usage: approximately 1000 g/m²:

- 2 layered prefinished parquet
- 10 mm lam parquet (max. 250 x 50mm)

Bona 1250 F or Bona 1250 G

Usage: approximately 1250 g/m²:

- 22 mm strip flooring
- 3 layered prefinished parquet, 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)

Other details of the product are described in an additional data sheet.

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.