

Technical Data Sheet

Bona R440

2-Component Crack Resin

Bona R440 is a solvent free (accord. to TRGS 610), very low emission (EC1 Plus) two component silicate-based cast resin. The material is suitable for the fast and non-positive repair and filling of cracks and joints in screeds. Furthermore, it can be used also for the bonding of metal profiles and nail bars. Both components can be mixed very quick and easy just by shaking. Bona R440 is ready to use within a few seconds.

- 2-component
- Very low emission EC1 Plus
- No tools required for mixing
- No annoying smell like polyester systems
- Fast curing
- Good filling properties and coverage
- Suitable on heated subfloors

Technical Data

Base: Sodium Silicate (water glass) and Isocyanides (Hardener)

Color: Yellow/beige

Viscosity: Fluid

Density: 1,3 g/cm³ (immediately after mixing)

Mixing relation: 1:1 (volume parts)

GISCODE: RU1

Cleaning: Bona Cleaning Wipes, once hardened the material can only be removed mechanically!

Pot life: 8 min.*

Processing time: 10-14 Min.*

Curing time: ca. 16-20 Min*.

Final strength: after ca. 24 hrs.*

Disposal: Dispose hardened material and packages in accordance to your local legal requirements

Storage / transport: The temperature must not fall below +5°C or exceed +30°C during storage and transport. Store in a cool, dry, well ventilated place

Shelf life: 12 month from date of manufacture in unopened original container.

Pack size: 2 x 300 ml PE-HD plastic bottles, Comp. A+B, 5 sets per unit

*23°C und 50 % rel. air humidity

Additional detailed information is noted in the appropriate safety data sheet.

Subfloor Preparation

The substrate must be sound, level, dry, and free from cracks and dust. The surface should also be slightly textured. If applicable, the subfloor must meet the requirements of local standards or codes of practice. If necessary, it should be professionally prepared for laying

Suitable Subfloors

- Cementitious screed (CT) according to EN 13813
- Calcium sulfate screeds (CA) according to EN 13813
- Mastic asphalt

Processing

Please note: The material must not be too cold or too warm, as this will affect the reaction rate seriously. Please use the material never at temperatures below 15°C and avoid direct sun radiation. Cold material needs to be acclimatized before use.

Existing cracks in the screed must be separated properly by an angle grinder

03.03.2021

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Fastening



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Place cross-sections slightly angular to the main crack at an interval of approx. 30-50 cm.

Vacuum the cracks and place the wave bonders for the non-positive bonding
Pour comp. A (resin) into the bottle with comp. B (hardener). Make sure that the bottle becomes completely emptied!

Close the lid and shake the bottle for approx. 15 sec. until an equal coloration has been achieved.

Cut of the nozzle

Pour the material within the processing time of approx. 10-14 minutes into the previously prepared cracks. Equalize surplus material with a flat trowel or similar
Broadcast quartz sand (0.3-0.8) onto the surface before it has dried to create a suitable substrate for further work

Crack repairing

Cracks within a substrate (also hairline cracks) may have different causes, e.g. insufficient or irregular thickness, too quick drying, wrong composition of the substrate material, instability of the insulating material and so on. Where cracks are present in the substrate these must be repaired prior to the timber floor being laid!

Consumption

Depends on the dimension of the cracks. Deep cracks can be filled with quartz sand before the application.

Drying time

Curing time: ca. 16-20 Min*.

Final strength: after ca. 24 hrs.*

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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