

## Technical Data Sheet

# Bona R590

## Silane based moisture barrier

Bona R590 is a one component silane-based primer for priming and/or sealing the residual moisture in cement screeds or concrete (up to 5%CM. / 90 % rH\*\*) before installing a wooden floor. It can also be used for the reinforcement of weak subfloor surfaces up to a certain level. Bona R590 is compatible with all Bona silane adhesives and as well for Bona levelling compounds. The water- and solvent free product contains no liquid extenders or components that can migrate after curing. The product is preferable to regular epoxy resin systems.

- Reinforcing effect
- Easy and fast application by trowel
- Moisture retardant up to 5 CM-% or 90 % rH\*\*
- Single application
- Fast drying
- No dangerous good
- Levelling compounds are applicable
- Product contains no liquid extenders or components that can migrate after curing

### Technical Data

Product type:	Silane based
Color:	White/beige
Viscosity:	Easy to apply – self levelling
Density:	1.56 g/cm <sup>3</sup>
Drying time:	ca. 4-6 hrs.*
Consumption:	500 g/m <sup>2</sup> application with Bona 500F (TKB A3), 150-200 g/m <sup>2</sup> by the application with flat trowel
Tools:	Bona trowel 500F or flat trowel
EMICODE:	EC1-R Plus
Cleaning agents:	Bona Cleaning Wipes, S100, acetone, ethanol, white spirit. Set material can only be removed mechanical.
Storage / transport:	The temperature must not fall below +5°C or exceed +25°C during storage and transport. Store in a dry, well ventilated place.
Shelf life:	12 months from date of manufacture in unopened container. If the product has settled out after longer storage times, stir thoroughly prior to use.
Pack Size:	8 kg plastic pail

Additional detailed information is noted in the Safety Data Sheet.  
\* at 20°C und 50 % rH

### Subfloor Preparation

The substrate must be even, clean, free from cracks and physically sound. Prior to application the floors must always be sanded, any laitance on top of the floor must have been removed. With concrete subfloors shot blasting may be necessary. The surface should not appear “obviously wet”. If necessary, it should be professionally prepared for laying. Slightly weak subfloor surfaces need to be prepared according to our recommendations. The application of Bona levelling compounds is possible by broadcasting dry quart sand (size 0.3 - 0.8 mm) into the wet primer. Remove surplus sand after the primer has been cured.

\*\* 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)

### Suitable Subfloors

- Cementitious screed (CT) according to EN 13813
- Calcium sulphate screed (CA) according to EN 13813
- Concrete floors

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

Fastening



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## Processing

Before using the primer, 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 product is protected by an aluminum plate, which must be removed together with little amounts of hardened material prior to use. The primer should be applied evenly, using Bona 500F trowel (TKB A3) or a flat trowel. After approx. 4-6 hours (the surface might be still a little bit sticky!), the parquet can be laid by using a Bona silane adhesive. The installation should be carried out within a narrow time frame to avoid dust forming on top of the primer.

If the floor is uneven and levelling with a levelling compound (e.g. H600) is needed, quartz sand (grain size: 0.3 to 0.8 mm) should be broadcasted in excess (ca. 2 kg/m<sup>2</sup>) into the fresh, wet primer. After hardening, surplus sand shall be removed by buffing, sweeping and vacuum cleaning, and then the levelling compound can be applied.

Slightly weak surfaces can be reinforced by the usage of Bona R590. However, try to remove loose material initially by using a suitable machine like for example Bona Flexisand 1.9 equipped with the diamond segments. Remove dirt and loose material by a vacuum.

Please note that Bona R590 is not necessarily able to make an unsound surface suitable for installation. Please observe the reinforcement effect in the individual case.

## Consumption

Approx. 500 g/m<sup>2</sup> as moisture barrier, application with Bona 500F  
Approx. 150-250 g/m<sup>2</sup> as a primer, application with a flat trowel

The consumption relates to the subfloor condition. Very rough and porous subfloors can result in a higher consumption.

## Drying time

Ca. 4-6 hrs.

Note: The drying time will extend under dry conditions!

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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