



Bona R540

1C – Polyurethane Primer

Multipurpose usage



Bona R540 is a reactive 1-component polyurethane primer and moisture barrier designed for use on absorbent and non-absorbent sub floors before the use of Bona silane adhesives; Bona Quantum and R820. The product can be used for damp proofing cement screeds and concrete floors up to 5 CM% or 95 % RH.

- Easy to apply
- Very good adhesion to all kinds of sub floors
- High penetration
- Moisture barrier
- Suited for underfloor heating

Technical Data

Product type:	Polyisocyanat - Prepolymer
Colour:	Transparent brown
Viscosity:	Thin liquid
Density:	1.14 g/cm ³
Application tools:	Bona 6 mm roller or brush
Application rate	Primer: Approx. 100 -150 g / m ² - 10 - 6.5 m ² / Kg. Moisture barrier: Approx. 250 -350 g / m ² 4 - 2.75 m ² / Kg.
Safety:	Please consult the Safety Data Sheet
Cleaners:	Acetone, Ethanol, Alcohol. After hardening it can only be removed mechanically.
Overcoating time:	After approx. 3 - 4 hours a 2 nd coat may be applied if required
Drying time:	Between 1 and 24 hours, depending on the following adhesive system Installation using Bona Quantum or R820 may then begin. (At 20° C/ 60% RH: High humidity and / low temperatures will extend drying times)
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 production in original unopened canister
Pack size:	6 kg
Certificates:	GISCODE: RU1. EMICODE: EC1 Plus
Additional detailed information is noted in the Safety Data Sheet.	



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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.

Suitable Subfloors

Suitable substrates (also in association with underfloor heating) include:

- Cementitious screed (CT) according to EN 13813
- Calcium sulphate screed (CA) according to EN 13813 (Only as primer and not as a DPM)
- Concrete
- New chipboards / particle board (P4-P7), OSB 2 – OSB 4 boards, plywood - as primer only
- Mastic asphalt screed (AS) according to EN 13813, properly sanded

Treatment schedule

Primer

Absorbent surfaces - 1 application

Very absorbent surfaces – 2 applications

Moisture barrier

To 90% RH: 1 application + Bona Quantum T or Bona R820

To 95% RH: 2 applications + Bona Quantum T or Bona R820

When used as a moisture barrier at least 24 hours must elapse before flooring is installed using Bona Quantum T or Bona R820.

NB. It is important that measurement of the moisture content of the floor 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

Application

For optimum performance the following climatic conditions should be met.

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



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NB. High temperatures and low humidity will shorten the drying time whilst low temperatures and high humidity will lengthen the drying / curing time. When in doubt a longer drying time is recommended.

Allow Bona R540 to reach room temperature before use.

Apply Bona R540 evenly to the substrate using a brush or roller. Avoid the formation of pools. Allow to dry to a transparent film. Occasionally, foaming may be seen due to a very absorbent substrate causing high consumption. If this occurs care must be taken to ensure the applied coat is even in appearance. If required, an additional coat should be applied.

Where 2 applications of Bona R540 are needed, apply in alternate directions at 90° to each other to ensure that complete coverage is achieved.

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.