



Bona Quantum T

Premium Adhesive



Bona Quantum T is a hard-elastic (DIN EN ISO 17178) 1-component, silane-based adhesive for the installation of a wide range of solid hardwood and engineered flooring. Bona Quantum T has a high viscosity to increase its green grab characteristics and is equipped with a revolutionary Titanium crosslinking technology, for a high initial bond strength and quick crosslinking.

Its unique formula offers the advantages of both hard-elastic and hard adhesives in one effective product to ensure a perfect result and balanced floors throughout their lifetime. Where moisture levels are below 95% Bona Quantum T can be used with the Bona Trowel Plus system as a combined moisture barrier and adhesive on concrete slabs or cement screeds.

Bona Quantum brings acoustic benefits to a floor with independent testing showing that noise transfer is reduced by up to 10 dB

Ease of use, excellent rib stability, versatility and a unique formulation make Bona Quantum T a premium adhesive suitable for daily use across a wide variation of flooring installations.

- Powerful titanium crosslinking
- Floor sanding possible after 12 hours
- Combined moisture barrier and adhesive application
- Excellent green grab with rapid initial bond
- Outstanding shear strength and rib stability



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Technical Data

Product type:	Silane based adhesive
Colour:	Oak tone (cream / beige colour)
Open time:	Approx. 40 minutes at 20° C and 55 % RH
Sanding:	Allow a minimum 12 hours at 20° C and 55 % RH
Surface treatment:	24 hours, depending on site conditions
Curing time:	24 hours - the floor will take light traffic after approx. 4 - 6 hours
Application tools:	Notched floor trowel – appropriate to the flooring type
Application rate:	1 – 1.5 Kg / m ² - standard installation
Safety:	Please consult the Safety Data Sheet
Cleaning:	Acetone or Ethanol. Hardened adhesive can only be removed mechanically
Waste:	Dispose of in accordance with local regulations
Shelf life:	24 months. From date of production in unopened original packaging
Pack size:	9 Kg tubular bag – box quantity 2 x 9 Kg 1 Kg tubular bag – box quantity 20 x 1 Kg
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. Protect from frost.
Certificates:	GISCODE: RS10 EMICODE: EC1 Plus Affset: A+

Additional detailed information is noted in the appropriate Safety Data Sheet.

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.

The use of a primer is typically not needed. If the subfloor is problematic (friable, high residual moisture content, etc.) the use of a primer /and / or moisture barrier, like Bona D501 or R540, can improve it. Uneven substrates must be levelled prior to Bona Quantum T being used. NB Deficiencies in the subfloor, such as holes or depressions, should not be remedied by using excess amounts of adhesive.



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Bona Quantum T is suitable for use in association with underfloor heating. New floors must have had the underfloor heating system fully commissioned, prior to installation of the wood floor. During installation and for a minimum of three days after completion the screed temperature must not be higher than 25° C.

Suitable Subfloors

- Cementitious screed / concrete
- Floors levelled with levelling compounds (at least 2 mm thick, resistant against plasticizer migration)
- Calcium sulphate screed
- New chipboards / OSB boards / plywood, etc. The subfloor must be firm and stable
- Other dry and sound sub floors

Bona Quantum T can be used on deep cleaned metal surfaces. Please contact the Bona technical department to discuss projects where wood is to be adhered to metal surfaces.

Application

For the optimum performance the following climatic conditions should be met.

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

If lower temperatures or higher humidity is experienced drying / curing periods may be extended.

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

When using a tubular bag, snip off the sealing ring and using a Bona applicator to squeeze out adhesive from the tube. After use, if unfinished, the bag can be tightly sealed, using a cable tie, and reused at a later date.

The adhesive should be applied evenly using a notched trowel appropriate to the flooring being laid (see below). The flooring should be laid on the adhesive and pressed down firmly during the open time, approx. 60 minutes*. Do not apply to a larger area than can be installed well within the open time. If applied adhesive remains unused and develops a skin, remove the adhesive, and apply new material. Adhesive which is pressed up in joints (so that it might come into direct contact with the finish) must be carefully removed, as must adhesive on prefinished surfaces.



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Moisture barrier + installation - Where moisture levels are below 95% Bona Quantum T can be used as a combined moisture barrier and adhesive application. This must be completed using the Bona Trowel Plus applicator. The Bona Trowel Plus is designed to ensure complete coverage of the concrete floor surface, leaving a 2 mm layer of adhesive, to act as a moisture barrier, whilst creating a rib structure, as with a normal trowel application. As the metal nibs on the blade will wear it is important that the Bona Trowel Plus bar is replaced regularly, approx. 7 – 10 m², to ensure that the correct coverage is maintained. A coverage rate of approx. 2.0 – 2.2 Kg / m²; should be expected, although the surface of the subfloor may affect the coverage rate. Insufficient coverage or an uneven coverage will compromise the efficacy of the system.

NB. Bona Quantum T cannot prevent moisture-related damage originating from issues such as water leaks, puddles, hydrostatic pressure, etc. Similarly other moisture or installation related issues such as incorrect acclimation of flooring or the effects of site conditions including temperature and humidity, etc.

Application with Bona OptiSpread UX - Bona Quantum T 9 Kg tubular bags are designed to be used with the Bona OptiSpread UX to make application of adhesive as quick and as efficient as possible. This is particularly useful on large installations of prefinished engineered flooring where adhesive can be laid in a 500 mm wide line ready for the boards to be laid. After inserting the Bona Quantum tubular bag into the Bona OptiSpread UX the sealing ring is removed and the application head screwed into place. The application is controlled by a battery powered piston system. Walking backwards at a steady pace, adhesive is laid in ribs across 500 mm width of the application head.

Further information on the Bona OptiSpread UX can be found on the product technical datasheet, which may be found at www.bona.com.au



Consumption

It is important that timber is laid at the correct moisture content and in accordance with current Australian standards. The application rate of the adhesive is extremely important as the movement of wooden elements of different dimensions, depth, width, length, produces varying amounts of stress upon the bond to the subfloor. Ensure that the correct coverage rates and even spread of the adhesive are achieved. Bona application trowels are available in the required sizes if required.



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Type	Dimensions mm	Coverage rate g / m ²
Overlay (end matched and butt edged)	12 mm – up to 86 mm 14 mm – up to 105 mm	1000 g / m ²
Parquet blocks	19mm – up to 125 mm	1000 g / m ²
Secret nail profile	80 x 19	Nailed & Glued:850 g / m ² Glued only:1250 g / m ²
Top nail profile	180 x 21 130 x 19	Along joists or battens
Engineered prefinished planks	2 layer 3 layer	1000 g / m ² 1250 g / m ²
Acoustic matting Bona Quantum T is suitable for the installation of most acoustic underlays based on granules of rubber and cork with PU elastomer bonding agent. It is recommended that trial applications are made to ensure that the adhesion is satisfactory.		850 - 1000 g / m ²
When using Bona Quantum as a combined moisture barrier and adhesive the quantities required per m ² will be <u>doubled</u> – approximately <u>twice</u> that used for a standard installation.		

N.B. Outside of the advice noted above it is not generally recommended that solid timber with a depth to width ratio greater than 1:6 is laid using Bona Quantum as the sole fixing method. Timber elements with a greater ratio may be more prone to gaps forming at the joints during extended periods of high temperatures and / or low humidity.

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.