Bona Titan

PURE TITAN STRENGTH

Bona Titan is an accord. to DIN EN ISO 17178 hard formulated silane based adhesive with the new revolutionary titanium technology, for a wide field of wooden floor installation jobs. Now with extended open time and accelerated crosslinking. Bona Titan ensures a proper crosslinking even under weird conditions without adding a hardener or an external crosslinking agent. The shear resistance bonding ensures a stabilization of wooden floors, particular solid elements. A primer is typically not needed. The fast-initial bonding strength in combination with rigid adhesive ribs reduces the risk of hollow spots by far. Pressed up adhesive in joints, shows no risk of discoloration or interactions with lacquers or oil systems.

- High shear strength Allows load after 6 hrs.
- Extreme high initial bonding strength
- Shear resistance bonding for all kind of wooden floors (hard accord. to ISO 17178)
- Innovative Titanium crosslinking technology, ensures a proper crosslinking even under weird conditions
- Perfect for oversized solid boards
- Quick processing on Bona R540 (ca. 6 hrs.) or Bona R590
- No addition of liquid extenders or components who can migrate after curing
- Very low emissions EC1 Plus
- Greenguard certified
- Can be used without a primer
- Suitable for all physically sound subfloors
- No discoloration or interactions with lacquers or oil systems

Technical Data

Base: Silane modified prepolymer
Color: Oak tone
Viscosity: High viscous
Open time: ca. 40 min*
DIN EN ISO Category: Hard
GISCODE: RS10
EMICODE: EC1 Plus
Affset: A+
DIBt: Z-155.10-482

Cleaning agents: Bona Cleaning Wipes, acetone. Hardened adhesive can only be removed mechanically
Curing time: 12-24 hrs*, light foot traffic after ca. 4 hrs.*
Surface treatment: Depending on air humidity and the moisture content of the materials between 12 and 24 hrs.*
Storage/Transport: The temperature must not fall below +5°C or exceed +25°C during storage and

Bona Titan

PURE TITAN STRENGTH

transport. Store in a dry, well ventilated place. Preserve from frost
Pack size: 15 kg bucket & 9 kg tubular bag
Shelf life: Bucket: 12 months / tubular bag 24 months from date of production in unopened original container/tubular bag
Disposal: Wastes and emptied container/tubular bags, should be handled in accordance to local regulations
* at 20°C and 55 % rH.

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

Subfloor Preparation

The substrate must in general be even, dry**, clean, free from cracks and physically sound. The surface should also be slightly textured. Thoroughly vacuum off loose material and dust. If applicable, it must meet the requirements of local standards or codes of practice (e.g. DIN 18356 “Working with wood flooring”, Ö-Norm B2218). If necessary, it should be professionally prepared for laying. Separating layers, adhesion reducing layers such as paints, varnishes and adhesive residues, old levelling compounds, old floor coverings etc. must be sufficiently removed by brushing, abrading, grinding or shotblasting. The use of a primer is typically not needed. If the sub floor is problematic (weak, high residual moisture content, etc.) the use of a primer like Bona D501, R540 or R590 can improve it. Uneven substrates must be levelled with Bona H600, H610 (filling of holes), or H660. If in doubt, get in contact with your local Bona technical service. Note: Bona Titan is suitable in association with under floor heating. Such floors need to pass the heating up protocol to drying up the screed! During installation and three days after the screed temperature must not pass 25°C

**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, CM-measurement, etc.)

Suitable Subfloors

- 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
- New chipboards (P4-P7) or OSB 2 – OSB 4 boards, screwed tightly
- Other dry and sound sub floors such like gypsum fibre boards
- Mastic asphalt screed (AS) according to EN 13813
- Can be used as well on deep cleaned metal surfaces. Please get in contact with Bona technical department for detailed processing information
- Bona underlays like Bona U310 and U340
- Concrete

Processing

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 underfloor 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. 40 minutes. 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 a finish or oil) remove it carefully or make sure that the adhesive is enough cured before you apply the surface treatment. Adhesive spills on prefinished surfaces should be removed with Bona Cleaning Wipes.

Depending on the expected average conditions the parquet needs, for the best adhesion, the correct

Bona Titan

PURE TITAN STRENGTH

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. Prefinished parquet shall have in average 8 %, solid parquet 9 %. 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.

Consumption

Bona Trowel 850F or 850G
(TKB B3/B6, ISO 6076 12T/11T)
Usage: approximately 850 g/m²
Mosaic parquet

Bona Trowel 1000F or 1000G
(TKB B8/B10, ISO 6076 14T/16T)
Usage: approximately 1000 g/m²,
2 layered prefinished parquet

Bona Trowel 1250F or Bona 1250G
(TKB B11/13, ISO 6076 16T/20T)
Usage: approximately 1250 g/m²
22 mm strip flooring
23 mm industrial parquet
3 layered prefinished parquet

Bona Trowel 1500F or Bona 1500G
(TKB B14/16, ISO 6076 22T/24T)
Usage: approximately 1500 g/m²
Solid planks

(F = fine, G = coarse)
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.

The adhesive consumption during the application with the Bona OptiSpread system, depends mainly on the walking speed. Please refer to respective machine manual.

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.