



Bona U300

Sound decoupling matting



ETA-23/0281



Bona U300 is an underlayment made of fine granules of PU foam with cork and PU elastomer bonding agent. Used beneath wood flooring, laminate flooring and other floor coverings it will reduce the transmission of sound from footfall. If the underlayment is bonded by adhesives both to the subfloor and the parquet, it can reduce the stresses on a (weak) subfloor.

- Easy to lay
- Improvement of walking and living comfort
- Low VOC product

Technical Data

Base: Fine granules of PU foam with cork and PU elastomer bonding agent.

Color: Brown (cork), black/grey/beige/brown (PU foam). The colour will change under prolonged exposure to sunlight. This has no effect on the product's technical properties.

Tensile strength: approx. 0.8 N/mm² (EN ISO 1798)

Density: 550 kg/m³

Elongation at break: approx. 30 %

Thickness: 2, 3 and 5 mm (± 0.3 mm).

EMICODE: EC 1^{PLUS}

ETA: ETA 23/281

Thermal resistance: 0.04 m²K/W (3 mm)

Reaction to fire: Efl (EN 13501-1)

Impact sound reduction*:

ΔLW = 16 dB** (2 mm, beneath 10 mm engineered parquet)

ΔLW = 18 dB** (2 mm, bonded beneath 10 mm block parquet)

ΔLW = 18 dB** (3 mm, bonded beneath 16 mm block parquet)

ΔLW = 19 dB** (2 mm, bonded beneath 10 mm two-layer engineered parquet)

Pack size:

2 mm: 1 m x 30 m

3 mm: 1 m x 20 m

5 mm: 1 m x 16 m

Storage/Transport: The temperature must not fall below +10 °C or exceed +25 °C during storage and transport. Store in a cool, dry, well-ventilated place.

Disposal: Product waste should be handled in accordance with local regulations.

* Test carried out in accordance with DIN EN ISO 10140 (Bona U300 bonded to the subfloor; wood flooring installed loose laid).

** The stated impact sound reduction values are based on laboratory tests carried out under standardised conditions. Due to site specific factors, including the building's acoustic properties, wood species, wood flooring type and climatic conditions, results achieved in practice may vary. An on-site assessment under real conditions is required to determine the effective sound reduction.

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This data sheet replaces all previous versions please check bona.com to ensure that you have the latest version



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Subfloor Preparation

The substrate must be level, sound, dry, and free from dust, cracks, residues and other contamination. Where applicable, the substrate must comply with relevant local standards and codes of practice. If these conditions are not met, the substrate must be suitably prepared and any deficiencies rectified prior to installation.

Smooth, sealed or non absorbent surfaces must be abraded where required to provide a suitable bonding surface. Remove dust and debris by vacuum cleaning.

Uneven or weak subfloors must be levelled using a suitable Bona levelling compound in accordance with its Technical Data Sheet. Ensure that the subfloor is sufficiently cured and dry prior to adhesive application.

Refer to the relevant Bona Technical Data Sheets for the adhesive used.

Application instructions

Bona U300 must be fully bonded to the subfloor using a Bona silane adhesive that is suitable for bonding to the underlayment. The following adhesives are recommended: Bona Quantum, Bona Quantum T and Bona Titan. Use the same adhesive to bond the wood flooring to Bona U300.

Lay Bona U300 at an angle of 45–90° to the intended laying direction of the wood flooring. First, spread the underlayment across the area without overlap (edge to edge) and cut it to the room shape. Then fold back one length by approximately half its width and apply the adhesive to the exposed subfloor. Lay Bona U300 into the adhesive within its open time and press down firmly to ensure full contact. Continue in this way until the underlayment is fully bonded across the entire surface.

Apply the adhesive using a Bona 850F notched trowel. On coarse or weak substrates, use a Bona 1000F notched trowel.

After the adhesive has cured, the wood flooring can be installed. Installation of the wood flooring over Bona U300 can be performed either by fully bonding the flooring to the underlayment with the same Bona silane adhesive used to bond Bona U300 to the subfloor, or by installing the flooring without bonding to the underlayment where the flooring is approved for loose laying by the flooring manufacturer.

A bonded system may provide a more stable floor build-up and improved in-room acoustic behaviour, while a non-bonded (loose) installation combined with an acoustic underlay such as U300 can provide enhanced impact sound reduction in separating floor structures when tested in accordance with relevant standards. Always confirm the appropriate installation method with the flooring manufacturer and observe all applicable installation instructions.

For rooms wider than 5 m, movement joints must be planned in the underlayment and in the wood flooring.

Suitable parquet types

- Block parquet
- Solid timber strips / planks
- Engineered multi-layered parquet
- End grain (use Bona U300 3 mm only)
- Wood flooring without tongue and groove (use Bona U300 2 mm only)

Observe the installation instructions of the wood flooring manufacturer.

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 the recommendations from the flooring manufacturer and the provisions of relevant standards.