Bona RenoForce

Glass fibre weave



Bona RenoForce is a glass fibre reinforcement weave for bridging and reinforcing existing cracks and construction joints up to 5 mm in width. It is designed to be embedded using Bona H610 or a Bona silane adhesive to provide crack reinforcement where the use of Bona R440 crack repair resin is not appropriate or is impractical, for example where crack opening and filling is restricted by the substrate construction. Bona RenoForce can also be used to reinforce transitions between different types of subfloors.

- Alternative crack reinforcement solution where Bona R440 is not appropriate or impractical
- For cracks and construction joints up to 5 mm
- To be embedded using Bona H610 or a Bona silane adhesive
- Glass fibre weave with high tensile strength
- Alkali-resistant fibres
- Suitable for reinforcing transitions between different types of subfloors
- Easy to use, localised repairs are possible
- Thin and flexible; easy to cut and install

Technical Data

Base: Sodium-silicate glass fibres
Colour: White
Tensile strength (filament): 3,500 N/mm²
Elongation at fracture: 2.0 %
Mass per unit area: 108 g/m²
E-modulus: 72,000 N/mm²
Fire classification: EN 13501-1, class Efl
Dimensions: 0.80 m × 45 m (36 m²)
Storage/Transport: Store in a dry place. Protect from moisture and direct sunlight.
Disposal: Waste and used packaging must be handled in accordance with local regulations.

Subfloor Preparation

The subfloor must be sound, dry, permanently dimensionally stable and free from dust, laitance, residues and other contamination. Where applicable, the subfloor must comply with relevant local standards and codes of practice. If these conditions are not met, the subfloor must be suitably prepared and any deficiencies rectified prior to installation.
Cracks and joints must be assessed prior to installation. Bona RenoForce is suitable for reinforcing and bridging cracks and stress relief cuts up to a maximum width of 5 mm. All loose material must be removed and the affected areas must be properly prepared to provide a sound, clean bonding surface. Where required, the surrounding surface shall be abraded to remove laitance and promote adhesion. Remove dust and debris by vacuum cleaning.

Do not bridge or cover expansion joints with Bona RenoForce.

Refer to the relevant Bona Technical Data Sheets for guidance on suitable primers, levelling compounds and repair mortars required for the specific site conditions.

2026-02-12
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Suitable Subfloors

- Cementitious screeds (CT) in accordance with EN 13813.
- Calcium sulphate screeds (CA) in accordance with EN 13813.
- Concrete.
- New chipboards (P4-P7) or OSB 2 – OSB 4 boards,tightly screwed.
- Magnesia screeds.
- Mastic asphalt screeds (AS) in accordance with EN 13813 (broadcast with quartz sand).
- Other dry and sound subfloors such as gypsum fibre boards or precast screed panels.

Installation instructions

Usage in combination with Bona H610

1. Remove loose material and surface layers using Bona FlexiSand and a suitable accessory (e.g. a PCD disc) to create a sound surface.

2. Vacuum the area thoroughly, including removing loose dirt from within the joints.

3. Highly absorbent subfloors should be pre-treated with Bona D515. Allow the primer to dry sufficiently for at least 60 minutes.

4. Pre-cut Bona RenoForce to the required sizes. Each sheet must extend at least 30 cm beyond the joint on both sides.

5. Mix Bona H610 in accordance with its Technical Data Sheet and apply a thin layer to both sides of the joint over an area sufficient for the pre-cut RenoForce sheets.

6. Immediately embed the pre-cut sheets (fleece side upwards) into the fresh compound and press down firmly using a flat trowel to ensure full contact. The mesh must be fully bedded into the compound without voids and completely encapsulated. The fibre direction must run across the joint direction. Observe the open time of Bona H610. Remove excess compound while still fresh.

Usage with Bona Titan (preferred) or other Bona silane wood flooring adhesive

1. Remove loose material and surface layers using Bona FlexiSand and a suitable accessory (e.g. a PCD disc) to create a sound surface.

2. Vacuum the area thoroughly, including removing loose dirt from within the joints.

3. Pre-cut Bona RenoForce to the required sizes. Each sheet must extend at least 60 cm beyond the joint on both sides.

4. Apply the adhesive and embed the pre-cut sheets (fleece side upwards) into the adhesive bed. Press down firmly using a flat trowel or other suitable tool to ensure full contact. The mesh must be fully wetted by the adhesive and completely encapsulated. The fibre direction must run across the joint direction. Observe the open time of the adhesive and smooth out the adhesive while still fresh.

5. After the adhesive has cured (refer to the relevant adhesive Technical Data Sheet), the wood flooring can be installed as normal.

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 make 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 the flooring manufacturer and the provisions of relevant standards.

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