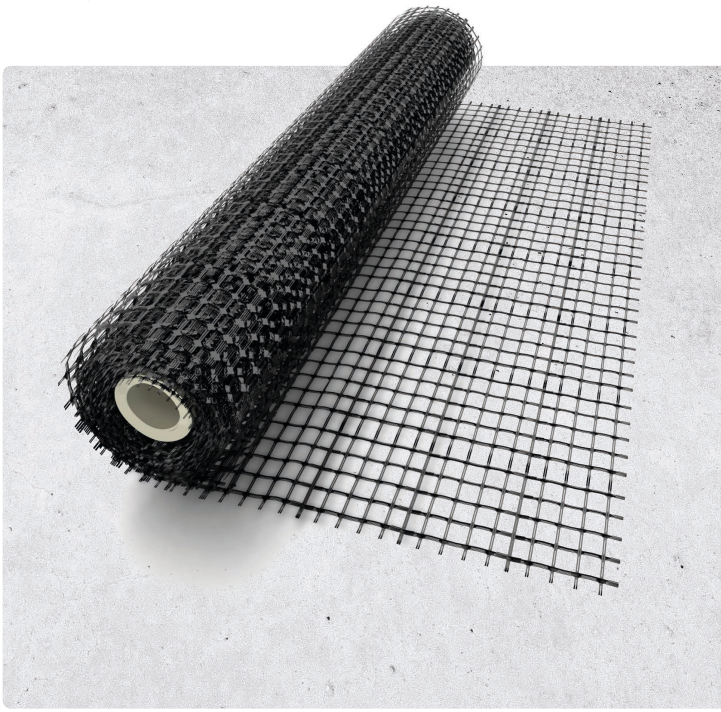
AquaRend Fix-B

TECHNICAL DATA SHEET

Manorteq AquaRend Fix-B is a basalt fibre mesh for the mechanical bonding of Manorteq AquaRend Thix, Fine or Flow to the substrate.



Description

Manorteq AquaRend Fix-B is intended primarily for providing additional bond and securing the Manorteq AquaRend range of products to the substrate in especially aggressive environments, such as where there is negative hydrostatic pressure prevalent. Manorteq AquaRend Fix-B is suitable for environments where there is a high risk of exposure to corrosive substances. Manorteq AquaRend Fix-B is both alkali and thermal resistant.

Manorteq AquaRend Fix-B is recommended where water ingress is occurring from the negative side.

Benefits include:

- Ease of fixing,
- Minimal cover of render required
- Resistant to most low pH and corrosive materials
- Low conductivity of heat
- Non-flammable and non-combustible

Please note: Manorteq AquaRend S-Fine is not sufficiently thick enough to be used as the second layer directly over Manorteq AquaRend Fix-B.
If Manorteq AquaRend S-Fine is required, please allow a minimum 10 mm thickness of Manorteq AquaRend Thix or 5 mm thickness of Manorteq AquaRend Fine before applying a layer of Manorteq AquaRend S-Fine.

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Technical Data

Properties

Weight of Mesh (g/m^2)	260 +/- 30
Tensile Strength of the Fibre (mN / tex)	> 700
Tensile Strength of the Mesh - in both main directions (kN/m)	> 50
Elongation at Break - in both main directions (%)	2.5 ± 1
Geometry of the Reinforcing Mesh	0/90°, 22 × 22 mm, open mesh
Fibre Density (g/cm^3)	2.67 +/- 5 %
Melting Point (°C)	1350 +/- 100

Comparison of properties of basalt fibres with other types of fibres

Properties of the Fibres	basalt fibre	E - glass	S - glass	polypropylene
Tensile Strength (MPa)	4 000 - 4 300	3 450 - 3 800	< 3 500	450 - 600
Tensile Elasticity (GPa)	84 - 87	72 - 76	72	13

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Installation

Substrate

1. Prepare the surface as detailed in the relevant Manorteq AquaRend technical data sheets.

Anchoring

1. Create Manorteq AquaRend Fix-B anchoring holes in the substrate by drilling holes with a minimum diameter of 12 mm and a depth of between 75 - 100 mm.
2. Holes should be rinsed out and clean from dust.
3. The appropriate number of anchor holes is a minimum of 4 per 1 m². The moistened holes should be filled with Manorteq NonShrink Thix. The Manorteq AquaRend Fix-B Anchors (which are basalt fibre strands covered in a plastic tube) are then secured into the fresh grout in the holes.

Application

1. Common cutting tools can be used for adjusting the size of Manorteq AquaRend Fix-B.
2. After 24 hours check the anchors are sufficiently secured. If satisfied they are secure apply your first layer of Manorteq render in accordance with the manufacturer's instructions. A minimum 5 mm thickness of Manorteq AquaRend Fine or 10 mm thickness of Manorteq AquaRend Thix or Flow, before applying a layer of Manorteq AquaRend S-Fine.
3. Immediately after applying the initial coat, Manorteq AquaRend Fix-B is pressed into the fresh mortar, threading the Manorteq Fix-B Anchors through the holes in the mesh.
4. The plastic covers from the Manorteq Fix-B Anchors are removed and the fibres are then spread in as regular a circle as possible. Immediately after the mesh has been pressed into the base mortar, it is covered with the relevant Manorteq product.
5. The second layer of the mortar should be applied so that Manorteq AquaRend Fix-B is completely covered by the appropriate thickness (5 mm for Fine, 10 mm for Thix or Flow).

Consumption

Specific consumption of Manorteq AquaRend Fix-B depends on the geometry of the surface. An allowance of 10% more than the surface area is normally enough for offcuts and overlays.

Packaging

Manorteq AquaRend Fix-B is a basalt mesh supplied in 1000 mm wide rolls, 50 m in length.

Storage

Storage and preparation of the mesh for use must take place in a dry environment. Rolls must be stored horizontally; the fabric must not be stored vertically. Incorrect storage may cause irreversible damage.

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Handling

Appropriate personal protective equipment (gloves, goggles, appropriate dust mask etc.) should be worn when handling Manorteq AquaRend Fix-B.

Warranty

Manorteq Limited (Company No. 13817118) warrants to the purchaser that the products supplied by it shall be free from material defect. Should any of the products be proven defective, the liability to Manorteq Limited shall be limited to (at the choice of Manorteq Limited) either replacement of the proven defective products ex-factory, or refund of the NETT ex-factory purchase price at the date the proven defective products were supplied. Manorteq Limited will not be liable or responsible, to such an extent as permitted by law, for any consequential or direct damages, compensation, costs, expenses, losses, or other liabilities that may occur as a result of the defective products. Manorteq Limited makes no warranty as to the merchantability or fitness for a particular purpose and the terms of this warranty are in lieu of all other warranties expressed or implied by law.

Please note: This Technical Data Sheet is for general guidance only. It does not constitute as a detailed guide for a specific application. Due to the unique circumstances of every site, each installation must be assessed on a project-by-project basis as there may be many variables to consider. Independent professional advice should be sought on each installation. The information contained within this Technical Data Sheet is to the best of Manorteq Limited's knowledge and belief, accurate and reliable of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability, or completeness. .

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