

Description

Freeztecq BR-Bond is a part of the Freeztecq Breathable Render system. It is an effective adhesive coating, used to ensure good anchoring of the Freeztecq BR-Base to substrates.

It is a single-component, dry mortar mix which has excellent adhesive properties. It is porous in nature, having good water vapour permeability characteristics. The anchoring compound is composed of Portland cement and specialist admixtures which ensure good adhesion and extensive aeration of the mix. Meets the requirements of EN 998-1 Annex ZA.

Advantages

- Mixed only with water.
- Applied manually.
- Good adhesion to base.
- High porosity.
- Low diffusion resistance to water vapour.

Physical and mechanical properties

Requirements / results according to EN 998-1

Properties	Value
Reaction to fire	Class A1
Compressive strength (MPa)	Class CSII
Water absorption after 24 hours (kg/m ²)	NPD
Water vapour permeability μ	NPD
Adhesive Bond (N/mm ²)	≥ 1.5
Penetration after testing of absorption (mm)	< 5

Colour	Non-standard grey
Bulk density (kg/m ³)	1350 +/- 50
Grain Sizes of the mix (mm)	0 - 4mm
Content of air pores (%)	< 30

Installation

Substrate. The surface of the masonry that is to be restored must be thoroughly cleaned of all existing paints, coatings, dust, and other impurities prior to any application. Previous renders, plasters and the like must be removed up to a height of 300 mm above the level of the 'salt line', or 1 metre above the original DPC, whichever is the higher of the two.

Where necessary, the mortar of both vertical and horizontal joints must be scraped out to a depth of about 2 cm. Any damaged and defective areas of substrate (such as damaged bricks and stones) must be replaced.

In extreme cases, where a wall needs to be re-profiled before application, it should be done with a suitable mortar. Prior to application of the BR-Bond, the

surface must be cleaned with pressurised air or a steel wire brush. Where the existing substrate contains an excessive build-up of salts it is advisable to take samples to determine such things as the moisture content of the brickwork, the salt content etc. This may then help with determining the optimum thickness of the restoration rendering system.

Preparation. The dry mix should be mixed with clean water. Small amounts of the render can be mixed in a pail with an electric drill fitted with a mixing paddle. Larger amounts should be mixed with a conventional mixer. Water consumption is typically 4 to 5 litres per 1 No. (25 kg) bag of product.

The mixing time is typically 10 to 15 minutes. Addition of binders or other components to the mix are not advisable. Working time at 20°C is typically 60 minutes. Neither the temperature of the substrate, nor temperature of the ambient air shall be below + 5° C or above + 30° C during the application process.

Application. The material is applied manually. The BR-Bond should be applied in a thin layer not exceeding 5mm thickness, either in the shape of crosses, or in dabs. The application should not cover more than 50% of the area being treated. Covering the entire area is not recommended.

Curing. The application should be protected from direct sunlight, wind, and other factors which could result in excessive evaporation.

Consumption.

Consumption of the mixture for 1 m² (at a coverage rate of 50% of the area), at 3 mm thickness, is 2.4 kg.



Storage.

Store this product in a draught free environment, clear of the ground, avoiding humid conditions and extremes of temperature (minimum lower temperature of 7°C). The product should be used within 6 months of the date of production marked on the bag and should not have been exposed to the atmosphere or any risk of oxidization prior to use.

Any product that is stacked should be done so in a stable manner, and to a safe height. The stacking of product should be carried out such a manner that it does not create any risk of product falling and accidentally bursting the packaging open.

This product contains Chromium (VI) and may produce an allergic reaction. The cement in this product may contain a reducing agent; the effectiveness of the reducing agent reduces with time. The storage period for the cement ingredient is in accordance with the declared storage period set out by the BCA. Use of this product after the end of the declared storage period may increase the risk of an allergic reaction. Reducing agents do not make cementitious products safe to handle without Personal Protection Equipment (PPE).

Packaging.

The product is packaged in triple-ply paper bags with a PE inner lining. Each bag contains 25 kg of product.

The shelf life in undamaged original packaging is 6 months from date of manufacture.

Handling and Health & Safety.

FreezTEQ cementitious products are alkaline. As a cementitious powder or mixture, FreezTEQ BR-Bond may cause significant skin and eye irritation. Directions for treating these problems are clearly detailed on all FreezTEQ cementitious packaging. The Manufacturer also maintains comprehensive and up-to-date Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of workers and customers. The Manufacturer recommends you contact Manorteq Ltd or your local FreezTEQ Technical Representative to obtain the latest copies of Safety Data Sheets, which must be read prior to product storage or use.

Waste disposal.

Dispose of at a licensed waste facility accepting cementitious and alkaline earth-based waste. Dispose of all materials in accordance with current local regulations/legislation.

Notes:

Standards may vary from region to region. The user should make contact with their local approval body prior to carrying out any work so as to ensure they are fully compliant with any standards that are enforce.

With any FreezTEQ products users should, prior to applying them, carry out trials and appropriate testing under project conditions, to satisfy themselves as to the product's suitability, ensuring that it meets all expectations for the project in question. Particular attention should be made with regards the trials and testing of FreezTEQ coating products. The user must be satisfied that there is sufficient adhesion between the parent structure and the coating which is being applied prior to commencing the works.

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.