



## Building Product Information Sheet | Class 1

**Product Name:** Dricon Brick, Trade, Trade Mortar Xtra, Architectural, Coloured, Mortar Plaster and Veneer Mortars

**Product Line:** Dricon Mortars

**Product Description & its intended use (*measurements, materials, usage*):**

Dricon Mortars are formulations containing cement, sand, oxides and admixtures which when mixed with water form a mortar. Dricon Mortar products are supplied under the trade names of Trade Mortar (TM), Brick Mortar (BM), Coloured Mortar (CM), Coloured Architectural Masonry Mortar (AM), Mortar Plaster (when used as a mortar) and Trade Mortar Extra (TX). The appropriate mortar product and the expected performance are described in the Dricon Product Manual.

Dricon Mortars are suitable for use with structural wall and/or external wall cladding work and for laying brick veneers. All products achieve 28-day compressive strengths greater than required to achieve compliance with NZS4210 when used in accordance with the instructions on the bag.

**Product Identifier:** N/A

**Place of Manufacture:** Aotearoa, New Zealand

**Legal & Trading name of Manufacturer(s):** FLETCHER CONCRETE AND INFRASTRUCTURE LIMITED

**Address for Service:** 810 Great South Road, Penrose, Auckland 1061

**Website:** [www.firth.co.nz](http://www.firth.co.nz)

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**Phone No.:** 0800 FIRTH 1

**NZBN (If applicable):** N/A



### Relevant Building Code Clauses:

Dricon Mortar products exceed the requirements of NZS 4210:2001 Masonry Construction: materials and workmanship, with an independently audited quality management system conforming to AS/NZS ISO9001. Mortars are typically used as part of a system comprising of bricks, structural masonry, or stone.

With appropriate design, construction, and maintenance (see below), Dricon Mortars concrete can demonstrate compliance with:

**B1-Structure:** Performance clauses B1.3.1 to B1.3.4

**B2- Durability:** Performance clauses B2.3.1 and B2.3.2.

**E2- External moisture:** Performance clauses E2.3.2 and E2.3.3

**F2- Hazardous materials:** Performance clauses F2.3.1

### Statement on how the building product is expected to contribute to compliance:

To ensure compliance with the NZ Building Code the appropriate Dricon product must be selected (refer to Dricon Product Manual). The product must be mixed and used in accordance with the instructions printed on the bags and the masonry wall constructed in accordance with NZS4210.

**B1-Structure:** When mixed and used as specified on the bags, Dricon Mortars achieve a compressive strength greater than required by NZS4210 to achieve compliance with the requirements of section B1 of the NZBC

**B2-Durability:** When mixed and used as specified on the bags, Dricon Mortars achieve a compressive strength greater than required by NZS4210 to achieve compliance with the requirements of section B2 of the NZBC

**E2-External moisture:** Dricon Trade Mortars achieve a compressive strength required by section 9.2 of E2/AS1, or sections 3.2 and 4.6 of CCANZ CP:01 (E2/AS3) to ensure compliance with section E2 of the NZBC and have a chloride content less than 0.04% by mass required by NZS4210 for mortars exposed to weather

**C-Fire performance:** Dricon Trade Mortars are classified as non-combustible Hazardous Building Materials - F2: Dricon Trade Mortars comply with the requirements of section F2.3.1 of the NZBC.

Safety data sheets are available on the Dricon website ([www.dricon.co.nz](http://www.dricon.co.nz))

### Limitations on the use of the building product:

Efflorescence (coloured deposits, often white and powdery or calcified, which sometimes form on concrete and mortar products) is not deemed to be a defect as it is a natural part of the curing process. Efflorescence is a temporary phenomenon that may manifest, at any time, for undefinable periods of time and with varying severity. Its management is outside of the control of Dricon and in general it is recommended to let it run its course. If desired, methods and products to reduce/remove efflorescence are available from Dricon stockists.

### Design requirements that would support the use of the building product:

Texture and colour variations due to the natural materials used in manufacturing can occur in Trade Mortar products and are not deemed a product defect. Dricon makes every endeavour to manufacture a consistent colour from batch to batch, however, if the manufacturing dates(batch number) differ from bag to bag, it is advisable to double check the mortar colours first use to ensure consistency.



Consistent shades and colours of any given mortar may not be achieved if the mixing time and/or amount of water added when mixing is varied from mix to mix.

Consistent tooling (finishing) is important to achieving a consistent appearance and shade for all mortars from joint to joint. 'Over-tooling' (aggressive or elongated) may draw more cement fines to the surface than desired which may 'burn' the mortar. 'Under-tooling' may result in larger sand particles showing in the finished surface which may not be an acceptable finish for the specified project. Care must also be taken to ensure tooling is carried out at a consistent time-period after placing all mortars.

The Dricon Trade Mortar product names do not necessarily indicate a match to any current brick names available. The natural texture differential between bricks and mortars will mean that absolute and exacting matches between any given brick and any given Trade Mortar cannot be achieved.

#### **Installation requirements:**

Mortar products shall be installed by suitably trained/experienced brick and block layers familiar with the requirements of NZS4210.

Cold, damp conditions will prevent any type of mortar from setting, resulting in weak product

Due to the nature of the raw materials available, formulations may vary between the differing Dricon manufacturing plants. This may result in varying water demands for Dricon Mortars from plant to plant. Subsequently, some bags do offer a water range in the mixing instructions.

Dricon Mortars have been specifically formulated so that when enough water is added to achieve an 80-100mm slump (the normal working consistency of concrete) the correct compressive strength will be achieved. Some small amount of variability in water addition is allowable, however do not exceed more than the maximum water prescribed on the bag, as the higher the amount of water, the lower the strength. Once the specific desired water ratio is selected, the consistent quantity of water per mix lot is important.

Mixing time is important to the performance of all mortars. The longer the product is mixed, the sloppier it may become, to a point where if over-mixed it may be unusable. In general, 5-6 minutes of mixing time is best for consistency. If any type of mortar is mixed for too long, an excessive amount of air is incorporated resulting in a weaker product.

The workability (board life) of Trade Mortars, under normal weather conditions of around 21 degrees Celsius, is on average 30-35 minutes. Hot, dry and windy conditions may result in any type of mortar drying out before the cement can hydrate.

All mortars need to be kept damp during the curing period. After tooling the mortar joints and before the mortar dries, moisten the entire wall, then keep the mortar damp for at least 7 days.

For all Dricon Trade Mortars, instructions are on the bags.

#### **Maintenance Requirements:**

Trade Mortar products shall be maintained by annual inspection with cleaning and repair of any cracks as necessary.

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**Is the building product/building product line subject to warning or ban under section 26?: No**

**If yes, description of warning or ban under section 26: N/a**

**Date:** 8 November, 2023