



## Building Product Information Sheet | Class 1

**Product Name:** Dricon Construction Grout

**Product Line:** Construction Grout

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

Dricon Construction Grout (CG) is a formulation containing cement, sand, and admixtures which when mixed with water form a trowelable or flowable grout depending upon the water addition. Dricon CG incorporates an expansion system which compensates for drying shrinkage in the plastic and harden states. Dricon CG would normally be used where the material can be confined during positive expansion in its plastic state.

The grout has high strength both at early age and after 28 days.

The used for Dricon Construction Grout are detailed on the Dricon website. Typically, the product is used to gap filling, under based plates and filling reinforcing tubes

**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)

**Email Address:** [info@firth.co.nz](mailto:info@firth.co.nz)

**Phone No.:** 0800 FIRTH 1

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



### Relevant Building Code Clauses:

Dricon Construction Grout is typically used as part of a specifically designed system. More information on its use can be found in the Technical data sheet. Compliance with any relevant building code requirements (typically B1 and B2) should be determined by appropriately qualified persons familiar with grouting techniques. Normally this would involve matching the product strength to the reinforcement cover depths and the environmental conditions.

With appropriate design, construction, and maintenance (see below), Dricon construction Grout 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.

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

Dricon products are manufactured under an independently audited quality management system confirming to AS/NZS ISO9001.

### 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 Dricon Product Manual). The product must be mixed and used in accordance with the instructions printed on the bags. The use of these products is normally specified by an appropriately qualified person (engineer) and therefore the instructions in the project specification shall also be followed.

**Structure - B1:** when mixed and used as specified on the bags, Dricon Construction Grout achieves a compressive strength of 60MPa. Compliance is determined by others (Designer) matching the 28-day compressive strengths with what is required for the design using Standards such as NZS3101 or the SESOC document "Precast Concrete-Grouted Connections and Drossbach-Sesoc Guidance"

**Durability - B2:** Compliance is typically determined by others (Designer) by considering the 28-day compressive strengths, binder contents/compositions and reinforcing cover depths in accordance with design standard such as NZS3101.

**Hazardous materials -F2** 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:

This product is designed to compensate for shrinkage in the plastic and hardened states. To be effective the grout should exist in a confined state.

The product should be installed by specialist contractors familiar with the product and application.

The product is not an adhesive but a grout and is therefore not suitable for post installed bolts or rebar installed into shallow holes drilled into concrete.

As with all concrete products, curing is required to achieve the specified strength.



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

Dricon Construction Grout is a product which would typically be specified by a suitably qualified engineer and installed by experienced grouting specialist. The connection detail, construction methodology, and quality assurance would be specified by the design engineer using recognised industry guidelines.

### Installation requirements:

Dricon Construction Grout shall be installed by suitably trained/experienced contractors familiar with the application.

All surface in contact with the grout shall be clean, sound and free from dust, rust, oil etc. Any weak layers should be removed by sand blasting or scabbling.

Concrete should be prewetted and allowed to dry back to a saturated surface dry state before commencing grouting. Pumps should be primed to assist flow. Formwork should be free from leakage.

Grout should be installed so that it is confined either by elements or formwork. Mixing shall be as directed on the bag.

Care should be taken to prevent air bubbles being trapped by the filling methodology or the use of bleed tubes. Grouting should occur in one continuous operation.

The workability life of Dricon Grout under normal weather conditions of around 21 degrees Celsius is approximately 40-60 minutes.

All Grouts need to be kept damp during the curing period of at least 7 days.

### Maintenance Requirements:

Dricon Construction Grout shall be maintained by annual inspection with cleaning and repair of any cracks as necessary.

**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 December 2023