

## Building Product Information Sheet – Class 1

<b>Product Name:</b>	Ready Mix Concrete
<b>Legal Name of the Manufacturer:</b>	Christchurch Ready Mix Concrete Ltd
<b>Address:</b>	10 Empire Rd Belfast Christchurch
<b>Website:</b>	<a href="http://www.crmc.co.nz">www.crmc.co.nz</a>
<b>Email address:</b>	<a href="mailto:info@crmcc.co.nz">info@crmcc.co.nz</a>
<b>Phone Number:</b>	03 323 8149

### Product Description and its Intended Use:

Ready mix concrete manufactured by Christchurch Ready Mix Concrete (CRMC) is suitable for a number of purposes when designed, specified, and installed by qualified personnel.

Ready mix concrete is available in a range of strengths, colours and binder contents to achieve performance requirements outlined in written form by others.

According to NZS3104, “normal concrete” is measured by the 28 day strength whereas “special concrete” is measured through parameters outlined by the designer.

### Relevant Building Code Clauses:

CRMC manufactures ready mix concrete to NZS3104 – Specification for concrete production. CRMC plants are audited by the ConcreteNZ Ready mix Plant Audit committee to ensure compliance to this standard. Plant audit certificates can be supplied when requested or can be obtained at [www.rmccplantaudit.org.nz](http://www.rmccplantaudit.org.nz).

If the following clauses are followed, CRMC can demonstrate compliance with:

- B1 – Structure: Performance clauses B1.3.1 to B1.3.4
- B2 – Durability: Performance clauses B2.3.11 and B2.3.2
- C6 – Structural stability during fire: Performance clauses C6.2
- D1 – Assess Routes: Performance clauses D1.3.3(d)
- E2 – External moisture: Performance clauses E2.3.2 and E 2.3.3
- F2 – Hazardous materials: Performance clauses F2.3.1

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

B1 – Structure

Compliance for concrete is measured by the 28 day compressive strength of concrete. The target strengths and rejection limits are outlined in NZS3104. Designers can also specify a design compliant to NZS3101. CRMC's batch plants are audited by the ConcreteNZ Ready mix Plant Audit committee to ensure compliance to NZS3104. Concrete placement, vibration, cover to reinforcement and curing is not the responsibility of CRMC.

B2 – Durability

Durability requirements are usually specified by the designer. These could include binder contents or compressive strength requirements at 28 days which are compliant to NZS3101. CRMC's batch plants are audited by the ConcreteNZ Ready mix Plant Audit committee to ensure compliance to NZS3104, which outlines good manufacturing processes for concrete production. Concrete placement, vibration, cover to reinforcement and curing is not the responsibility of CRMC.

C6 – Structural stability during fire

Christchurch Ready Mix concrete is classified as non-combustible with fire ratings determined by others using standards such as NZS3101.

D1 – Assess Routes

Skid resistance requirements are determined by others (designer). D1/AS1 provides guidance on a variety of surface textures. Compliance with D1 is achieved by the designer specifying the required surface texture or skid resistance.

E2 – External moisture

E2/AS3 provides details to ensure compliance.

F2 – Hazardous materials

Christchurch Ready Mix concrete complies with section F2.3.1 of the NZBCS.

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

Due to the natural materials used to manufacture Christchurch Ready Mix concrete there can be variations in colour and texture. Finishing and curing techniques can also produce variability. Efflorescence, pinto, delamination or colour variation is not a Christchurch Ready Mix concrete defect as CRMC does not have control of the product once placed. Concrete cracking is the responsibility of the designer or concrete placer.

**Design requirements that would support the appropriate use of the building product:**

Christchurch Ready Mix concrete can be used with a variety of other building products. Examples are but not limited to are: hard fill, reinforcement, fibres, anchors, structural steel, specialist finishes etc.

A suitably qualified person familiar with the requirements of the NZBC , NZ design Standards and preparation of specifications for construction shall be involved in the design and requirements for concrete performance.

**Installation requirements:**

A suitably qualified person familiar with the requirements of the NZBC, NZ design Standards, NZS 3109, good trade practice and designer specifications shall be involved in the installation of Christchurch Ready Mix concrete.

**Maintenance requirements:**

Christchurch Ready Mix concrete shall be maintained by cleaning as necessary or as specified by the designer.

**Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?:**

Yes        No   

**If yes, description of the warning or ban under section 26:**

N/A