CEMIX CONCRETE COMPONENTS

# BPIR DECLARATION

Version 2.0 May 2024

## DESIGNATED BUILDING PRODUCT: Class 1

## DECLARATION

Cemix Products Ltd (Cemix) has provided this declaration to satisfy the provisions of the Building (Building Product Information Requirements) Regulations 2022.

## COMPANY DETAILS

| | |
|---|---|
| **Name** | Cemix Products Ltd |
| **Role** | Manufacturer |
| **NZBN** | 9429031177702 |
| **Address** | 19 Alfred St, Onehunga, Auckland 1061 |
| **Website** | www.cemix.co.nz |
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| **Phone** | 09 636 1000 |

## DESCRIPTION OF BUILDING PRODUCT

Concrete is a composite material composed of aggregate, Portland cement and water. Through a process called concrete hydration, concrete hardens and cures into a durable construction material that achieves a compressive strength measured in MPa.

Other additives can also be added to the mixture to improve the physical properties of the wet mix or change the finished material.

Cemix supplies varying components of the concrete mix comprising,

- ready to use pre-cement mixes,
- individual components, and
- additive to decrease the time to cure.

## SCOPE OF USE & LIMITATIONS

The range of products, the scope of use and limitations are as follows.

### Admixture – Accelerset

**Accelerset**

A calcium chloride based accelerator and densifier. It is added to reduce the time for the concrete to set and cure. It must be used in the correct dosage.

## Cement Pre-mixes

### Fastcrete

A cement pre-mix comprising sand, aggregate, Portland cement and admixtures.

It achieves a compressive strength of 15MPa within 28 days.

### Superstrength Fastcrete

A cement pre-mix comprising sand, aggregate, Portland cement and admixtures.

It achieves a compressive strength of 30MPa within 28 days.

### Flexiset

Premium, highly flexible, polymer modified, rubber modified, water resistant.

Used for fixing tiles to concrete, cement renders, screeds, fibrous cement sheeting and CEMIX approved waterproofing membranes.

Suitable for use in interior and exterior floor applications.

### Multicrete

A general purpose cement pre-mix comprising sand, aggregate, Portland cement and admixtures.

It achieves a compressive strength of 28MPa within 28 days.

For the first 7 days it should not be walked or driven on. Do not apply sealers for the first 28 days.

The compressive strength achieved will also depend on the other materials used as well as the mixing, placing and finishing.

### Maxcrete

A general purpose cement pre-mix comprising sand, aggregate, Portland cement and admixtures.

It achieves a compressive strength of 45MPa within 28 days.

For the first 7 days it should not be walked or driven on. Do not apply sealers for the first 28 days.

The compressive strength achieved will also depend on the other materials used as well as the mixing, placing and finishing.

### No Steel Concrete

A general purpose cement pre-mix comprising sand, aggregate, Portland cement and admixtures.

It achieves a compressive strength of 28MPa within 28 days.

Where substrate movement is possible, the addition of steel is recommended.

For the first 7 days it should not be walked or driven on. Do not apply sealers for the first 28 days.

The compressive strength achieved will also depend on the other materials used as well as the mixing, placing and finishing.

## Concrete Components

### GP Cement

Is a premium Portland cement. Where a mix includes Cemix GP cement water loss should be minimised.

It will take at least 28 days and for the first 7 days it should not be walked or driven on.

The compressive strength achieved will also depend on the other materials used as well as the mixing, placing and finishing.

### Builders Mix

Is a blend of sands and aggregate that is used in conjunction with cement to form concrete.

Once mixed with cement water loss should be minimised.

It will take at least 28 days and for the first 7 days it should not be walked or driven on.

The compressive strength achieved will also depend on the other materials used as well as the mixing, placing and finishing.

### Ecostrong Cement

A low carbon general purpose cement.

A premium Portland cement that will take at least 28 days to fully cure and should not be walked or driven on for the first 7 days.

Compressive strength will depend on other materials used, and mixing, placing and finishing.

## CONTRIBUTION TO BUILDING WORK CODE OBLIGATIONS

The Cemix concrete components do not have building code obligations. Code contribution arises when mixed and used in accordance with all Cemix instructions.

The building code obligations are:

B1 (Structure), applicable performance criteria. The use of concrete and the strength that is achieved is well established in NZ.

B2 (Durability), applicable performance criteria. The durability of concrete is well established in NZ based on in-service use.

F2 (Hazardous Building Materials), F2.3.1. The concrete components are not considered hazardous, and do not emit harmful gases.

## FOR FURTHER INFORMATION

Cemix concrete components must be used in accordance with all information supplied by Cemix Products Ltd.

For supporting information refer to www.cemix.co.nz/concrete-mortars.

## RESPONSIBLE PERSON

In accordance with Regulation 8, as the responsible person I confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore to the best of my knowledge, correct.

I can also confirm Cemix concrete components, as referred to in this statement, are not subject to a warning or ban under s26 of the Building Act.

**Signed for and on behalf Cemix Products Ltd:**

B Dhillon

B Dhillon
MANAGING DIRECTOR

May 2024