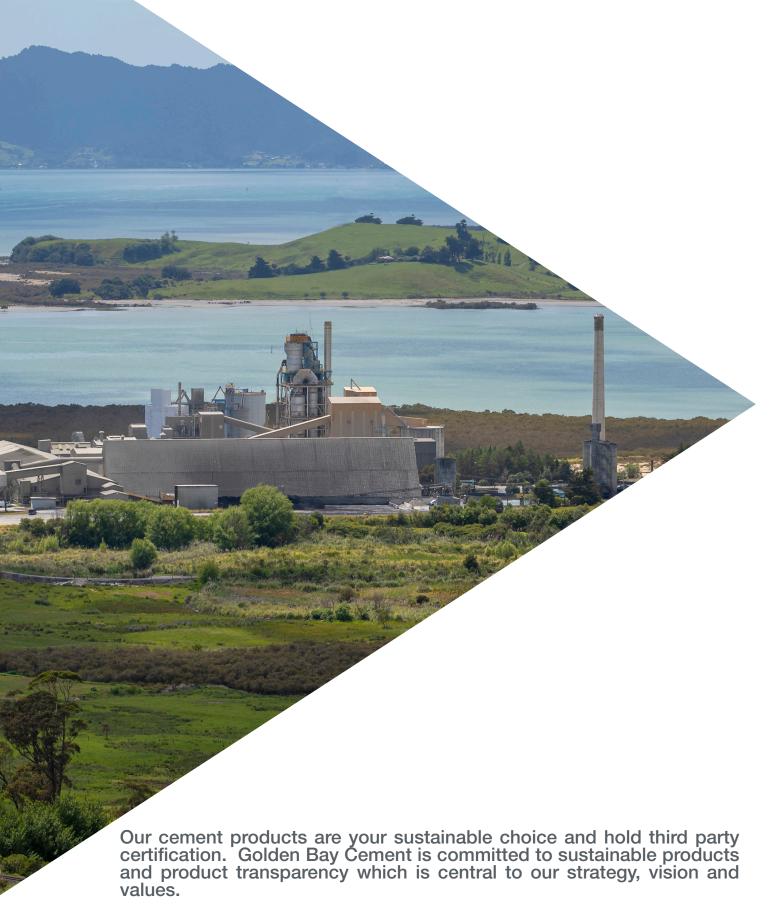


**Golden Bay Cement** 





Visit our website: goldenbay.co.nz



Our NZ made cement has been independently assessed to demonstrate a 20% lower carbon emissions per tonne of cement than our import competitors.









# **Type and Composition**

## **Typical Properties**

EverSure Type GP cement is manufactured by grinding Portland cement clinker, gypsum and up to 10% mineral addition.

Property	Units	EverSure
Relative Density	t/m3	3.11
Bulk Density - Aerated	kg/m3	1400
Bulk Density - Non Aerated	kg/m3	1600
Specific Surface Area	m2/Kg	330
Loss on Ignition	%	3.1
Sodium Equivalent (NaEq)	%	0.56
Free Lime	%	2.0
Chloride Content	%	0.004

	Units	EverSure	NZS3122:2009
Initial Setting Time	Mins	130	45 min
Final Setting Time	Hrs/Mins	3:30	6.0 max
Soundness	%	1	5.0 max
Sulphur Trioxide (SO3)	%	2.2	3.5 max
3 days ISO CEN Comp Strength	MPa	33.0	-
7 days ISO CEN Comp Strength	MPa	45.0	35.0 min
28 days ISO CEN Comp Strength	MPa	65.0	45.0 min

### **EverSure Type GP Cement Components**

	Units	EverSure
Portland Clinker	%	91
Gypsum	%	4
Limestone Mineral Addition	%	5
Cement Improver	-	SikaGrind 8710

#### **EverSure Type GP Cement Hypothetical Compounds**

Compound	Units	EverSure
C3S	%	62.0
C2S	%	13.8
C3A	%	5.6
C4AF	%	6.8

#### **EverSure Type GP Cement SL & SR performance**

EverSure type GP meets the requirements of a type SL (Shrinkage Limited) cement and a type SR (Sulfate Resistant) cement.

Note: Sulfate Resisting cement (Type SR) is no longer included in NZS 3122:2009. Its removal in the most recent amendment reflects current New Zealand industry practice whereby sulfate resisting concrete is now achieved by using necessary replacement levels of EverPlus Silica Fume or EverPlus Fly Ash and appropriate binder contents, water/cement ratio, compaction and curing.

#### Compatibility

EverSure Type GP cement is compatible with Fly Ash conforming to AS/NZS3582.1 such as EverPlus Class C & F Fly Ash and amorphous silica conforming to AS/NZS3582.3 such as EverPlus Silica Fume.

EverSure is compatible with concrete admixtures conforming to AS 1478. Admixtures should be added in accordance with the manufacturers' recommendations.



#### **Quality:**

Using a range of carefully selected raw materials, EverSure is manufactured under strict quality control – ensuring the cement consistently reaches it's high standard of durability and strength. Each batch undergoes testing support and certification from the IANZ accredited lab.

The end product is a reliable, durable and versatile cement – compatible for most environments and uses throughout our country.

EverSure Type GP cement meets and exceeds the minimum specification set out in NZS3122:2009. Our testing laboratory is IANZ accredited and we have TELARC certification for our ISO 9001 Quality Management System.

#### **Application:**

EverSure Type GP cement is ideal for most cement uses. From ready-mix concrete applications, to high strength precast concretes, EverSure is the cement of choice throughout the residential, commercial and infrastructural sectors.

Other application uses include mortar, render, grout or stabilisation for road construction.



0800 CEMENT (236 368)

For further information, visit our website at: www.goldenbay.co.nz