

## Section 1 - Product and Company Identification

<b>Product:</b>	Portland Cement (Type I, Type II)
<b>Use:</b>	Portland Cement is used as a binder in concrete, concrete masonry, mortar and grouts.
<b>Company:</b>	Republic Cement Services Inc. Menarco Tower, 32nd St. Bonifacio Global City, Taguig City, Philippines Tel: +63 2 885 4599 or +63 2 238-9881 Email: customerservice@republiccement.com

## Section 2 – TECHNICAL INFORMATION

### PORTLAND CEMENT

Portland Cement for civil engineering, building applications, ready-mixed concrete, and concrete products.

Republic Portland Cements are quality-assured with independent third-party certification and carry a PS Quality Mark.

## Section 3 – INGREDIENTS

92-95% Clinker  
3-5% Gypsum  
3-5% Limestone

## Section 4 – APPLICATIONS

### Portland Cement Type I

Ordinary Portland Cement used in general concrete construction. Cement with enhanced properties for ready-mixed concrete and pre-cast manufacturers.

Can be used for Most Concrete Structures.

## **Portland Cement Type II**

Moderate Sulfate Resistance Cement & Moderate Heat of Hydration is required. It has better durability than Portland Cement Type I and produce dense concrete structure

Ideal for Retaining walls/large piers/dams/board piles exposed to sea water and massive pours.

### **Refer to the following documents:**

- ASTM for Concrete
- ACI 301 Specification for Structural Concrete
- ACI 318 Building Code Requirement for Structural Concrete
- ACI 305 Hot Weather Concreting

## **Section 5 – PROPERTIES**

- Grey colour
- Consistent strength meeting all the conformity criteria of PNS 07 and ASTM C 150 : Specifications for Portland Cement
- Compatible with admixtures such as air-entraining agents, workability aids, and strength enhancer with additions such as fly ash, silica fume and ground granulated blast furnace slag. Trial mixes are recommended to determine the optimum mix proportions.

## **Section 6 – CONDITIONS OF USE**

- Concrete, mortars and grouts containing REPUBLIC PORTLAND CEMENTS must be specified and used correctly for best performance.
- The cement content must be correct and the water:cement (wc) ratio as low as possible consistent with satisfactory placing, thorough compaction and effective curing.

- The final finish quality of this material will depend upon the operative having the required skills and a familiarization with the materials and its application methods.
- Republic Cement cannot be held responsible where workmanship has not been carried out in accordance with good practice.
- PORTLAND CEMENTS are manufactured from natural products, and slight shade variations may occur.
- Portland cements will also have shade variations from differing manufacturing plants.

## Section 7 – AVAILABILITY

REPUBLIC PORTLAND CEMENTS are available throughout the Philippines in bulk tankers, tonner bags and in 40-kg bags.

## Section 8 – TECHNICAL SUPPORT

Further information and specification advice on PORTLAND CEMENTS, and the full Republic Cements range, can be obtained from the contacts listed below.

### **Customer Service Assistance:**

Hotline: (02)885-4596

E-mail: [customerservice@republiccement.com](mailto:customerservice@republiccement.com)

Website: [www.republiccement.com](http://www.republiccement.com)