

## **PORTLAND CEMENT**

### **Product Description**

Lehigh Portland Cement\* is a hydraulic cement conforming to ASTM C 150, ASTM C 1157, and AASHTO M 85. A careful selection and blend of raw materials follows stringent quality control procedures in the manufacturing of portland cement. This results in a high quality, consistent portland cement that is easy to work with during construction and contributes to long lasting, aesthetically pleasing structures.

Type I general purpose cement – suitable for all uses where the special properties of other types are not required.

Type II moderate sulfate resistance cement – contains no more than 8% tri-calcium aluminate (C3A) for moderate sulfate resistance.

Type I/II – Type I/II cements meet both the C3A requirements of Type II cement and the compressive strength requirements of Type I cements.

Type III high-early strength cement – chemically and physically similar to Type I cements but ground finer to produce higher early strengths.

Type II/V high sulfate resistant cement - Type V cement usually gains strength slower than Type I cements.

### **Key Features/Benefits**

- Consistent plastic and hardened properties
- Consistent color
- Reliable performance and strength

\*Includes Saylor's Portland Cement and Iron Clad Portland Cement brands

Pantheon, Rome

## Applications

Lehigh Portland Cement is primarily used in the production of concrete. Packaged portland cement is often used in mortar to construct masonry walls with brick, stone and/or concrete block. Lehigh Portland Cement is compatible with water-reducing, super-plasticizing and air entraining admixtures as well as mineral admixtures.

All concrete or mortar should be mixed thoroughly until it is uniform in appearance and all ingredients are evenly distributed.

Adding chemicals to the mix during batching can change the properties of plastic or hardened concrete. Admixtures can be used to adjust setting times, reduce water demand, increase workability, entrain air, provide a more economical mix and adjust other properties. Optimum performance in terms of strength and durability is achieved in concrete when the water/cementitious ratio is kept at a minimum to provide satisfactory placing and consolidation. Proper proportioning, batching, mixing, placing, consolidating, finishing and curing are essential to achieving the desired results.

## Applicable Standards

Lehigh Portland Cement conforms to the requirements of ASTM C 150, Standard Specification for Portland Cement; ASTM C 1157 Standard Performance Specification for Hydraulic Cement; AASHTO M 85, Standard Specification for Portland Cement.

Minimize direct contact with wet cement. Exposure of sufficient duration to wet portland cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns. Consult the relevant SDS before working with Portland Cement.

## Delivery/Storage

Lehigh Portland Cement is sold in bulk and packaged in 94 lbs. (43 kg) multi-walled bags. In select markets, it is available in 47 lbs. (21 kg) multi-walled bags. Packages should be kept free from moisture.