

FortiCem[®]

BLENDING CEMENT

Introducing FortiCem Blended Cement.

The right blend of performance and sustainability.

FortiCem[®] is a blended hydraulic cement that combines pozzolans with ordinary Portland cement (OPC) for both general use and special use applications. FortiCem is manufactured according to both ASTM C595 & AASHTO M 240 Standard Specifications for blended hydraulic cements. This ASTM C595 blended cement falls under the classification for Portland-pozzolan cements known as Type IP. FortiCem has been engineered to exceed the performance of an ASTM C150 cement and is rigorously tested to verify its performance.

PROPERTIES

Our plants have manufactured FortiCem to exceed the performance compared to the predominant cement produced, based on extensive testing and evaluation. The performance targets encompass both fresh and hardened concrete properties. These properties include durability evaluations in addition to the usual strength requirements. In addition to offering increased strength, durability and a lower carbon footprint, FortiCem offers superior mitigation to alkali-silica reactivity (ASR) and sulfate reduction. Holcim recommends that all concrete mix proportions be tested for strength and durability properties in a qualified concrete lab.

Specifications

FortiCem Blended Cement meets ASTM C595 & AASHTO M 240 standard specifications for blended hydraulic cements. This ASTM C595 blended cement falls under the classification for Portland-pozzolan cements known as Type IP.

Applications

- Ready-mixed concrete
 - Architectural & structural precast elements
 - Concrete block
 - Paving
 - Geotechnical
 - Pipes
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SUSTAINABILITY

FortiCem is a great, general use cement to consider for your next project. As the environmental impact of building materials continues to be looked at closer, our Type IP Portland-pozzolan cement can be part of your solution on your next project. Part of the ECOPlanet™ Cements series, FortiCem has been engineered to significantly lower the carbon footprint of your next project and also offers better performance and durability than OPC. Manufactured with high quality pozzolans, this Portland-Pozzolan cement is a hydraulic cement in which the pozzolan constituent is up to 40 percent, thereby using less clinker than the traditional manufacturing process. Because we replace 40 percent of the clinker with pozzolan, the CO₂ emissions are reduced by up to 40 percent per metric ton of cement.

EXPERIENCE

At Holcim US, we have 13 cement plants that produce more than 22 million tons of cement every year. We are committed to maintaining or exceeding the level of capacity through plant modernizations and investments.

In response to ever-increasing market demand for performance and sustainability, we offer the ECOPlanet Cements series, a portfolio of blended cements and supplement cementitious materials (SCMs), and have introduced ECOPact, a line of low-carbon concrete mixes.

Benefits

- Superior alkali-silica reaction (ASR) mitigation and sulfate resistance.
- Significantly lower carbon footprint. Up to 40% clinker replacement when spec allows.
- Increased strength and durability.
- Does not require fly ash.
- Interground to reduce material complexity and allows for the use of a single product.
- Product consistency through blending at the cement plant.

