

Fly Ash Class C

FOR IMPROVED CONCRETE DURABILITY

Product Description

Summary of Advantages:

Boral Resources fly ash is a pozzolan for concrete, consisting of the “finely divided residue that results from the combustion of ground or powdered coal” as defined by ASTM C 618. A pozzolan, as defined by ASTM, reacts chemically with calcium hydroxide produced by the hydration of portland cement to form additional cementitious compounds.

Boral Resources Class C fly ash, produced from sub-bituminous coal, offers both cementitious and pozzolanic properties. This permits a higher percentage of fly ash to be used without sacrificing early strength gain.

When correctly proportioned, concrete that contains fly ash can have equivalent or greater 28 day compressive strengths when compared to plain portland cement concrete. Due to the pozzolanic reaction, fly ash concrete will continue to gain strength beyond 28 days exceeding that of plain portland cement concrete.

Major Benefits

- Easier placement
- Improves pumpability
- Improves finishability
- Reduces water requirements
- Improves durability

Applications

Boral Resources Class C fly ash can be used as a pozzolan in virtually any concrete application. When correctly proportioned, Class C fly ash will add many benefits such as increased strength, increased durability and reduced permeability. Class C fly ash is particularly beneficial in high performance concrete applications where high compressive strengths are required or where exposure conditions demand highly durable concrete. Class C fly ash can also be effective at mitigating problems associated with alkali-silica reactions when used at high cement replacement rates.

Features:

In plastic concrete:

- Reduces bleeding and segregation
- Improves pumpability
- Improves finishability

In hardened concrete:

(depending on mixture proportions used)

- Increases ultimate strength
- Reduces drying shrinkage
- Decreases permeability
- Lowers heat of hydration
- Reduces creep

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Quality & Specifications

Boral Resources Class C fly ash that is provided for use in concrete applications will meet or exceed the performance requirements of ASTM C 618. To ensure compliance with ASTM C 618, our on-site and central quality control laboratories carefully sample and test the fly ash according to the requirements of ASTM C 311. In addition, independent commercial testing laboratories provide compliance testing.

Shipping and Delivery

Boral Resources fly ash is normally shipped, stored and batched in the same manner as portland cement. Your trained Boral representative can suggest the most appropriate and economical procedure for given conditions.

Boral Resources

Boral Resources is America's largest manager and marketer of coal combustion products. With operations coast to coast, Boral Resources is committed to supplying quality products broadly supported by skilled technical sales professionals. To meet our customers' present and future needs with coal combustion products, Boral Resources continues its commitment to customer based research and development and broad based marketing programs.

For more information on our complete line of products, contact your local Boral Resources representative or visit us online at flyash.com.

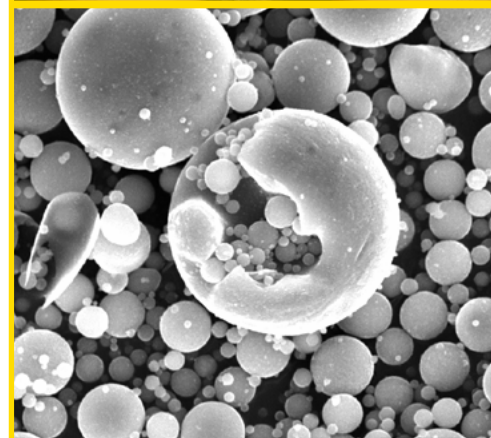
Because Boral Resources cannot control the final use of its products, there are no warranties expressed or implied regarding a product's use or performance in any given circumstance. Persons receiving this information should make their own tests to determine suitability for their particular use.



Boral Resources

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Boral Resources Class C fly ash provides enhanced characteristics in plastic and in hardened concrete. This pozzolan improves finishability and achieves higher ultimate strengths compared to plain portland cement concrete.