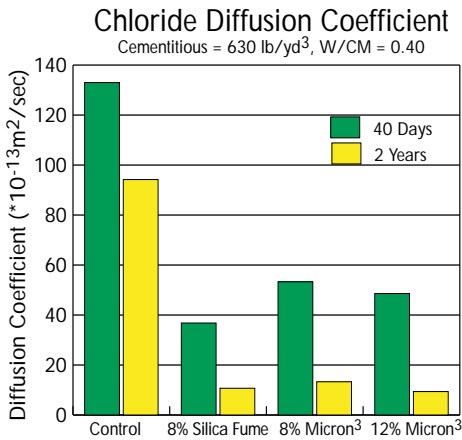


High Performance concrete with superior workability.



Product Description

Boral Micron³™ is a highly reactive pozzolan designed to increase concrete strength, reduce permeability and increase durability. Its optimal particle size distribution and spherical shape improves workability.

Applications

Boral Micron³ can be used to produce high strength concrete exceeding 15,000 psi (105 MPa) at 28 days. Examples of high strength applications are columns for high rise structures, bridge girders and safety vaults.

Boral Micron³ significantly reduces concrete’s permeability to chloride, water and oxygen and increases concrete’s resistivity. These properties help achieve corrosion resistant concrete which is typically used in parking garages, bridge decks and marine environments. Boral Micron³ remarkably increases concrete’s resistance to alkali silica reaction, sulfate attack and other chemical attack. If Boral Micron³ is used with a very low water content, highly viscous concrete can be obtained that can be used for shotcreting applications.

Ideal Particle-Size Distribution

The particle size distribution of Boral Micron³ has been optimized to increase concrete workability while increasing pozzolanic reactivity.

Particle Size	Boral Micron ³	Fly Ash	Silica Fume
Typical Mean Diameter, μm	3.0	25	0.3

How It Works

Boral Micron³ increases the packing density of the cementitious system thus creating a less permeable structure. In addition, as a pozzolan Boral Micron³ consumes calcium hydroxide and creates more calcium aluminate silicate hydrates, which makes the concrete stronger and less permeable.

Features

- *Lowers permeability*
- *Increases durability*
- *Decreases water demand*
- *Achieves higher strengths*
- *Resists ASR, sulfate attack*
- *Improves workability*
- *Reduces chloride ingress*
- *Increases resistivity*

Enhance concrete performance.

Advantages Over Other Highly Reactive Pozzolans

Unlike other highly reactive pozzolans, Boral Micron³™ improves workability and reduces water and water reducing admixture demands. It reduces cracking due to autogenous and plastic shrinkage. These benefits ensure that the excellent concrete durability properties measured under controlled laboratory conditions can be more easily realized in the field.

Typical Physical and Chemical Properties

Boral Micron³ satisfies ASTM C 618 Class F fly ash requirements. Typical properties are:

- (1) Particle Size Distribution*
 - 50% < 2.5 microns
 - 90% < 7.0 microns
- (2) Specific Gravity = 2.53
- (3) Pozzolanic (strength) Activity Index
 - 7 days - 107% (of control)
 - 28 days - 124% (of control)

*As determined by laser interferometer analysis

Compatibility with Fly Ash

Boral Micron³ is completely compatible with quality pozzolans such as Boral Fly Ash. Durable concrete with low life cycle costs can be achieved by using Boral Fly Ash and Boral Micron³ as part of the cementitious material.

Packaging and Dosage

Boral Micron³ is available in repulable 25 lb. bags, one ton super-sacks, or bulk. Recommended dosage is 5-20% of the total cementitious content.

Boral Material Technologies

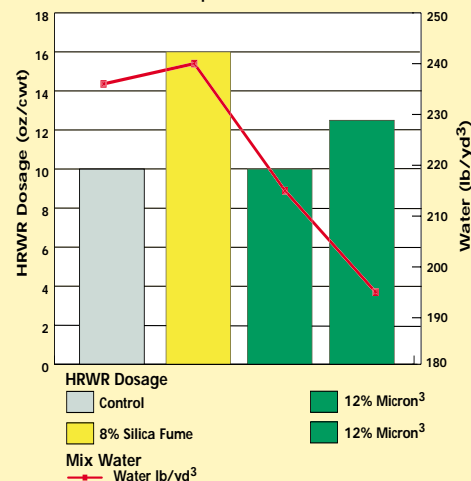
Boral Material Technologies is a major processor and marketer of coal combustion products in the United States. With over 40 years of marketing experience, Boral is committed to supplying quality products broadly supported with skilled technical sales professionals. To meet both our customer's present and future needs with coal combustion products Boral 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 representative, corporate office or visit us online at www.boralmti.com.



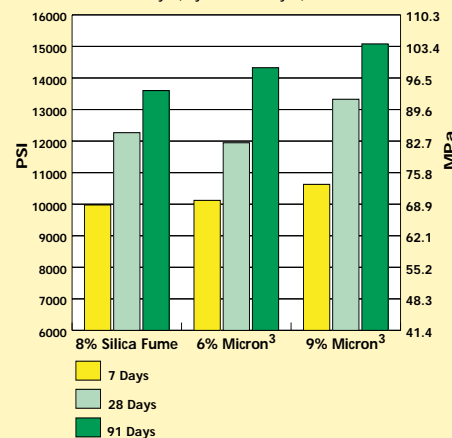
Because Boral Material Technologies Inc. cannot control the final use of its products, there are no warranties expressed or implied regarding a product's use or performance in any given circumstance. Persons receiving this information should make their own tests to determine suitability for their particular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

Water & HRWR Requirement
Slump = 8" +/- 1/2"



High Strength Concrete

Cement = 823 lb/yd³, Fly Ash = 100 lb/yd³, W/CM = 0.26-0.28



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