

ReAct® Blend

Low CO₂ Cement Product

Product Detail

Typical Physical Properties

BET Surface Area (m ² /g)	5 – 7
D10 (µm)	2.5 – 4
D50 (µm)	5 – 7.5
D90 (µm)	9 – 12

Typical Mineral Properties

Mineral Form	>95% Vaterite
Chemical Composition	>95% CaCO ₃
Color	White
Directional Brightness (ANSI T 646)	88 – 99
Diffuse Brightness (ANSI T 534)	87 – 97
Specific Gravity	2.45 – 2.5
Particle Shape	Round

Packaging

ReAct Blend is available to be shipped in 33lb (~15 kg) buckets, ~2,000lb (909 kg) super sacks, or by bulk tanker.

Handling Best Practices

Storage and Handling

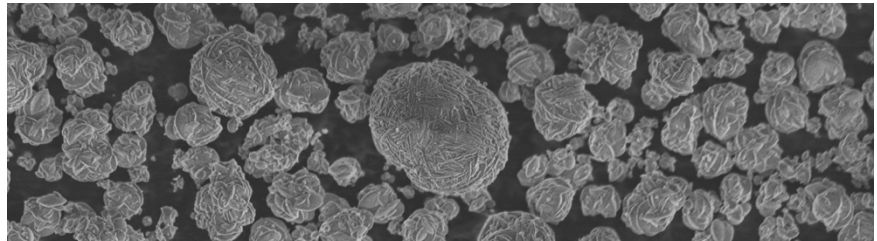
Store in dry conditions.

Shelf Life

ReAct Blend has a minimum shelf life of 6 months when stored under the recommended conditions.

Description

ReAct® Blend is a dry calcium carbonate powder in the form of vaterite for use in portland cement concrete and mortars. ReAct Blend meets the requirements of ASTM C1797 when added independently and ASTM C150, C595, and C1157 when preblended with portland cement.



Product Characteristics

Benefits

- Decrease your use of portland cement
- Optimize your use of SCMs
- Improve workability
- Improve finishability
- Low CO₂
- Improve early-age strength

Workability and Finishing

Due to the round particle shape, ReAct Blend may decrease water demand or reduce the amount of water reducer required for equivalent workability of mix designs without ReAct Blend. Fortera recommends trial batching to determine the extent of water demand reduction.

Mixing

ReAct Blend can be stored in a cement silo and batched in the same manner as bulk cement. When ReAct Blend is added via super sacks or buckets directly into the ready-mix truck, it should be added along with 1–2 gallons of batch water per yd³ up to 15 minutes prior to loading the other constituents. After the truck is loaded with remaining constituents, the concrete should be mixed for 5 minutes at mixing speed or 70 revolutions minimum to ensure ReAct Blend is thoroughly integrated in the concrete.

Recommended Use

Fortera recommends a ReAct Blend dose of 3–25% of total cementitious material.

Admixture Compatibility

ReAct Blend is compatible with most common admixtures. It is recommended that the compatibility be verified when adding any new admixture to a mix design.

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