

ReAct is a highly engineered green cement product that is developed through Fortera's patented ReCarb® process. The ReCarb process mineralizes CO<sub>2</sub> into cementitious products that can be tailored to cement producers business needs and market requirements.



# Highly Engineered Low CO<sub>2</sub> Cement Product

Fineness and morphology are designed to increase packing efficiency, accelerate cement hydration, and improve workability.

## Typical Physical Properties

| ReAct Product Range                  | Fine    | Coarser   |
|--------------------------------------|---------|-----------|
| BET Surface Area (m <sup>2</sup> /g) | 5 – 7   | 0.9 – 1.9 |
| D10 (µm)                             | 2.5 – 4 | 10 – 13   |
| D50 (µm)                             | 5 – 7.5 | 19 – 24   |
| D90 (µm)                             | 9 – 12  | 31 – 36   |

## Typical Mineral Properties

|                                     |                        |
|-------------------------------------|------------------------|
| Mineral Form                        | >95% Vaterite          |
| Chemical Composition                | >95% CaCO <sub>3</sub> |
| 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                  |

## ASTM

C150, C595, C1157

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## Key Benefits

- Low Clinker Blend
- Ample Surface Area for Nucleation Effect
- Improved Particle Packing
- Faster Strength Gain

Strong Reactivity with Alumina

## Applications

- Portland Limestone Cement
- PLC Enhancer
- LC<sup>3</sup> Enabled
- Slag Extender
- Fly Ash Extender