

cement creates Civilization







Low CO₂ Cementitious Product Solutions

Fortera offers customizable low CO₂ cementitious product solutions tailored to cement producers' business needs and marketplace.

ReAct products are synergistic with supplementary cementitious materials and ground limestone, optimizing the cement gradation, creating a more homogeneous microstructure, and eliminating defects.

ReAct is a precipitated calcium carbonate polymorph, which can be blended into ASTM C150*, C595*, or C1157 cements or mixed into concrete during batching.

*ASTM C150 and C595 Ballot Approval September 2023

Product Solutions

ReAct Max Strength

Vaterite, a reactive form of calcium carbonate, used as partial cement replacement enhances the strength of binary and ternary blends.

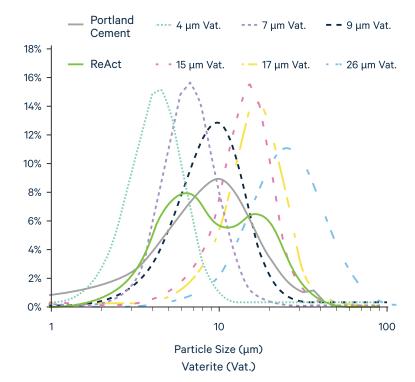
ReAct Max Flow

Vaterite, a reactive form of calcium carbonate, used as partial cement replacement enhances the workability of concretes and mortars.

ReAct Pure

Vaterite, calcium carbonate cement, used as a pure binder.

Tailored Size and Surface Area Solutions

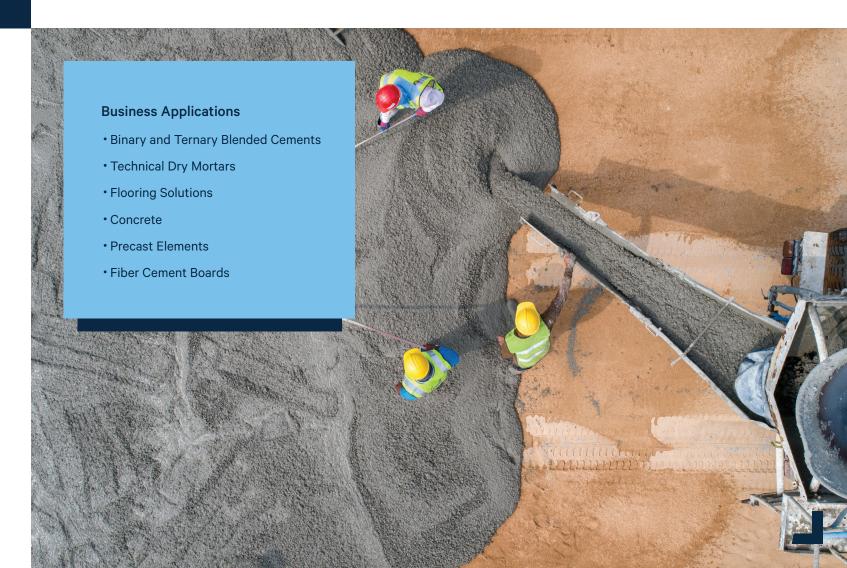


Business Impact

- Reduce the CO₂ impact of cement and formulated products
- · Make low clinker content blends
- · Optimize particle packing
- Increase strength and durability
- Improve flowability and workability
- Enhance LC₃ performance

The ReCarb® Process Delivers Three Types of Innovative Low Carbon Cementitious Materials

ReAct Product Range	ReAct Max Strength	ReAct Max Flow	ReAct Pure
Function	Fine SCM	Coarser SCM	Cement
BET Surface Area (m²/g)	5 – 7	0.9 – 1.9	1-3
D ₁₀ (μm)	2.5 – 4	10 – 13	7 – 10
D ₅₀ (μm)	5 – 7.5	19 – 24	14 – 18
D ₉₀ (μm)	9 – 12	31 – 36	23 - 28
Key Benefits	Low Clinker Blend Ample Surface Area for Nucleation Effect Particle Size Packing Higher Solubility, Faster Strength Gain Higher Reactivity with Alumina		High CO ₂ Avoidance
			High Compressive Strength
			Rapid Curing at Elevated Temperatures
			Good Dimensional Stability
			Ultra Low Shrinkage



Path to Zero

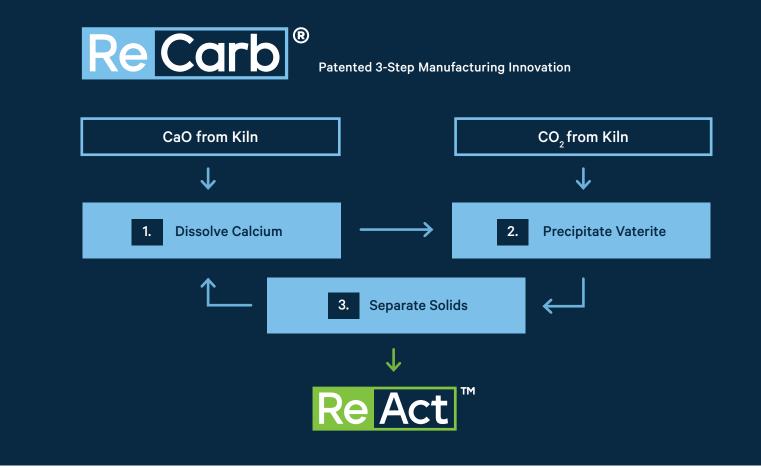
ReCarb® Generates Cement with 100% CO2 Reduction

Fortera's ReCarb process is a patented transformation of cement manufacturing, designed to deliver a realistic pathway to zero CO₂ cement production.

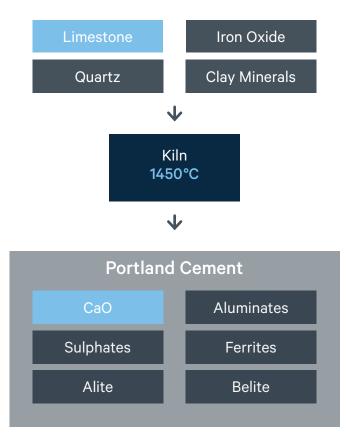
Through the ReCarb process, Fortera has created a market ready cement that is 70% lower in CO₂ emissions, which can ultimately achieve zero CO₂ emissions when combined with green energy sources using commercially available solutions.

CO₂ Reduction

10+% 40% ReAct™ Binary Blends + ReAct Ternary Blends + **Current Energy Sources Current Energy Sources** 80% 70% ReAct Blend + Green **ReAct Pure Energy Sources** >100% 100% ReAct Blend + Green Energy ReAct Pure + Green Sources + Carbon Capture **Energy Sources Utilization and Sequestration**

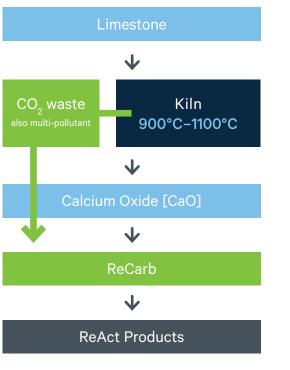


Traditional Cement Plant



ReCarb Plant Process

Fortera leverages existing raw materials and infrastructure





Engineering Technical Services

Bolt-On Cement Decarbonization Solution

The Fortera ReCarb® Process Plant is a turnkey bolt-on decarbonization solution that integrates into existing cement plant infrastructures. It is customized to align with specific business goals and market requirements.





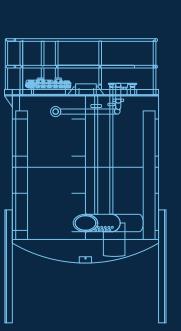
Project Execution EPC Selection + Design Bolt-On Site Integration Permitting

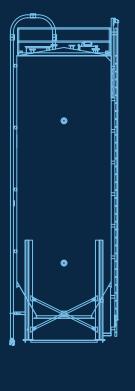


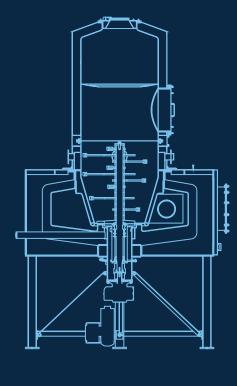
Key Partnership Benefits

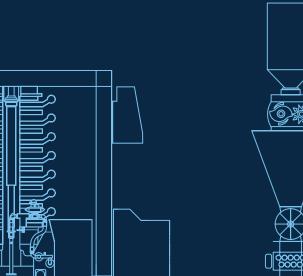
- Provide a unique low-CO₂ cementitious solution for cement producers
- * Reduce site emissions and related costs
- · Increase production capacity without increasing cost
- · Implement a custom product portfolio
- · Execute a path to carbon neutrality

Our Goal is to Help Cement Producers Reduce Their CO₂ **Emissions in a Cost-Effective** and Sustainable Manner.

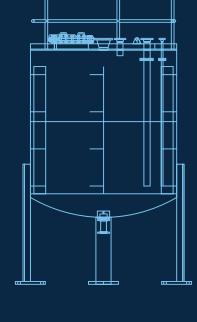
















Why the Plus?

Fortera is an Additive Solution for Cement and Concrete Producers



We are your Partner

A bolt-on solution to your existing plant, leveraging your established distribution and sales network.



We are the Green Solution

Employ green energy advancement to achieve zero or even negative emissions.



We are Synergistic

Synergistic with both existing and new supplementary cementitious materials.

fortera



Our Mission

Together we will reduce CO₂ emissions from cement production and scale an economical, climate-positive solution.

As a mission-driven materials technology company, our focus to work alongside our customers will pave a pathway to zero CO₂ cement production by upcycling carbon emissions directly from the kiln.

We drew inspiration from nature to invent a scalable process for making cement that uses CO₂ instead of emitting it. We intercept the CO₂ emitted when limestone is heated during calcination, and upcycle it to be used to create low-carbon cement.

low-carbon cement solution that is both ready to commercialize and able to economically scale globally.

Ryan Gilliam, PhD
 Chief Executive Officer

Reach Out For More Info!

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