



You see a concrete structure.
We see a concrete opportunity
to fight climate change.



CarbonCure Concrete Technology

Recycling CO₂ to make simply better concrete

Information package for the Design
and Construction Community

CARBONCURE™

A Green Solution

WHAT

CarbonCure allows concrete to contain sequestered recycled CO₂ with the opportunity to further reduce the carbon footprint of mixes via cementitious content reduction.

HOW

- CarbonCure's technology is retrofitted into existing Central Concrete plants.
- Carbon dioxide (CO₂) gas is sourced from local industrial emitters and then purified.
- The purified CO₂ gas is delivered in pressurized vessels to the concrete production facility by commercial gas suppliers.
- CarbonCure's proprietary technology precisely injects the CO₂ into the concrete mix.
- The CO₂ is chemically converted into solid calcium carbonate, which is permanently embedded within the concrete.

IMPACT

- By partnering with CarbonCure, Central Concrete recycles the waste CO₂ as a fresh concrete ingredient. This creates the potential to reduce the cement content of the mix without sacrificing compressive strength, while also reducing the overall carbon footprint and global warming potential (GWP).
- Central Concrete's ready mix products have the same color, finish and workability.

LEED

CarbonCure's technology allows the potential for project teams to contribute towards Materials and Resources and Innovation credits under LEED v4.

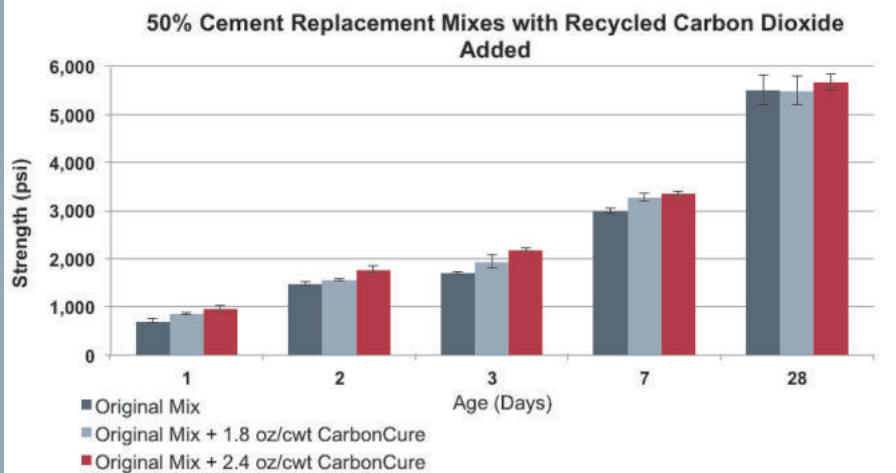
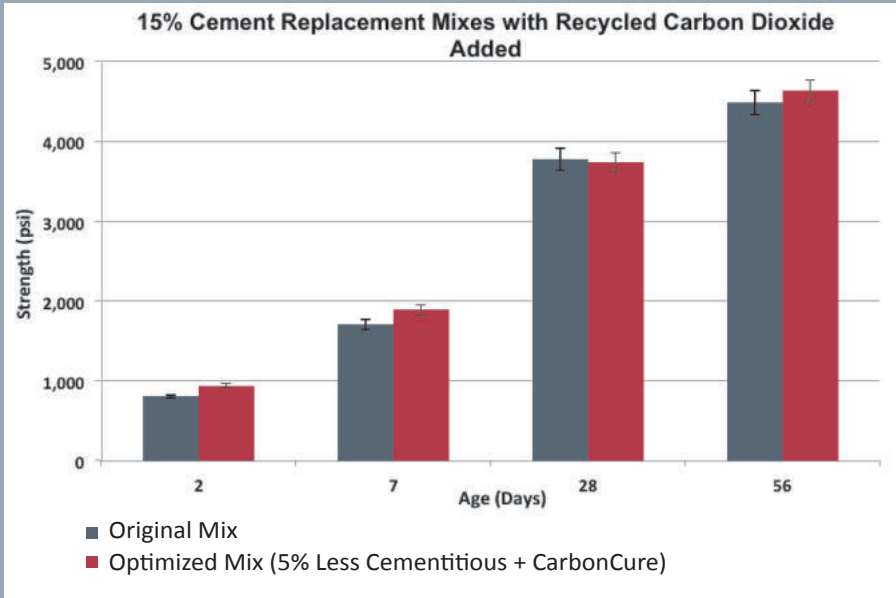
| | Number of Points | LEEDv4 credits |
|--------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Material & Resources | 4 points | MRC1, INC1 |
| → Up to 5% reduction in global warming potential (GWP) using CarbonCure's technology as outlined in an EPD. | | |

SAME RELIABLE CONCRETE ... Now with Recycled CO₂

PROVEN RESULTS

- Sequestered recycled CO₂ in concrete for any application.
- Maintain the same concrete performance with reduced carbon footprint.
- Thorough evaluation conducted by U.S. Concrete's National Research Laboratory.
- No change to pumping, placing and finishing.

Central Concrete has optimized mix designs where carbon footprint was reduced and compressive strength maintained by adding recycled CO₂ and reducing cementitious materials. These include some high-early strength mix designs.



CUSTOMER RESOURCES

GENERAL RESOURCES

Visit:

- www.centralconcrete.com
- www.carboncure.com

TECHNICAL LIBRARY

Contact Central Concrete to secure additional technical data, along with the CarbonCure spec language for your ready mix specifications.

AIA PRESENTATION

Learn more on how you can reduce the carbon footprint of concrete. You will earn 1 AIA HSW learning unit after completing "Reducing Embodied Carbon with CO₂ Mineralized Concrete." AIA #40107569. Course #CCT000000003.

LUNCH & LEARN

Arrange a Lunch & Learn today.

Want to learn more? We offer a myriad of Lunch & Learns covering such topics as:

- Advances in the development of low carbon, green mixes
- Carbon sequestration
- Recycled concrete aggregate
- Returned fresh concrete
- Environmental Product Declarations
- High strength mixes: Taking on the challenges of today's tall buildings
- Engineering concrete mixes to meet your needs: High strength, Low deflection, high MOE, low shrinkage, self-consolidating concrete, long-distance pumping
- High early strength: Responding to accelerating construction schedules
- Rapid drying concrete: Preventing costly flooring failures
- Flowable mixes: Reducing in-place costs; improving advances in maturity testing; monitoring concrete temperature and strength in real-time

Contact:

Juan Gonzalez
Sustainability Manager
Central Concrete
Supply Co, Inc.

jgonzalez@us-concrete.com
408.771.6261