A Low Carbon Concrete Success Story for Precast / Prestressed Concrete Producers

Collin Bender
Conewago Manufacturing
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Meet the Speaker

Collin Bender
QC Manager
Conewago Manufacturing
The History

Donald B. Smith
CEO, President
Conewago Enterprises, Inc.
Conewago’s Path to Low Carbon Concrete

- CarbonCure supplier since Feb. 2020
- 1261 metric tons of CO$_2$ saved to date
  - 191 metric tons of CO$_2$ saved in Precast alone
- 3% reduction of cement Precast
- 5% reduction of cement Ready Mix
How it Works: CarbonCure Precast
Seamless retrofit technology that operates with no disruption to batching procedures

Installation
- CarbonCure installs its proprietary retrofit equipment (1 day)
- CarbonCure optimizes the CO₂ injection rate

Integration
- Batching integrated with batch operations system
- Automated CO₂ dosage

Injection
- Central mix: CO₂ snow injected into mixer during batching sequence
- Dry batch: CO₂ snow injected into mouth of truck near the end of the load

Support
- Remote telemetry for customer support
- Real-time system monitoring
- Toll-free technical support line
131,000 sq ft
Manufacturing Facility
High quality, low embodied carbon concrete products, including:

- Beams
- Columns
- Solid and insulated structural and architectural precast wall panels
Conewago Reference Project: Dick’s Sporting Goods

“It is great to be able to reduce the carbon footprint of this structure and others, by providing high quality precast and ready mix embodied carbon concrete though the use of CarbonCure.”

Collin Bender, QC Manager, Conewago Manufacturing

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<thead>
<tr>
<th>Tenant:</th>
<th>Concrete Supplier:</th>
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<tbody>
<tr>
<td>Dick’s Sporting Goods</td>
<td>Conewago Manufacturing</td>
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<tr>
<th>Contractor:</th>
<th>Structural Engineer:</th>
<th>Architect:</th>
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<tr>
<td>Conewago Enterprises</td>
<td>Thorson Baker &amp; Associates</td>
<td>Fox Design Group</td>
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<tr>
<th>Concrete Supplied:</th>
<th>Est. CO₂ Savings:</th>
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<td>451 yd³</td>
<td>4.7 metric tons (10,373 lbs)</td>
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<th>CO₂ Savings Equivalent:</th>
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<td>5.5 acres of forest absorbing CO₂ per year</td>
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Conewago Reference Project:

Aquaphoenix Scientific
Hanover, PA

Owner: Aquaphoenix Scientific
General Contractor: Conewago Enterprises
Design Engineer, Architectural & Structural: Wolf Consulting Engineers

Total CarbonCure Concrete Used: 802.5 yd³
CO₂ savings: 8.4 metric tons (18,458 lbs)

CO₂ Savings Equivalent: 9.8 acres of forest absorbing CO₂ per year
Thank You!
Questions?
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FREE LIVE WEBINAR
JUNE 23, 2022  10:30 AM PT | 1:30 PM ET

The Impact of Federal Buy Clean Requirements on the Concrete Industry