Based in Texas, family-owned Lauren Concrete has always been an early adopter of new technologies that can help the company on its mission to deliver World-Class service to customers, employees, and its communities. With a growing emphasis on sustainable building in the markets it serves, Lauren Concrete saw an opportunity to gain first-mover advantage with sustainable concrete.
The Challenge

Concrete is the world’s most abundant man-made material and consumption continues to rise. We produce 4 billion tonnes of concrete every year and demand is forecast to increase by another billion over the next thirty years.

Concrete improves the quality of our built environment and its strength, durability, and resilience make it inherently sustainable. Unfortunately, the process of making cement, the key ingredient that gives concrete its strength, accounts for about 7 percent of the world’s CO₂ greenhouse gas emissions.

Lauren Concrete is one of many concrete companies committed to sustainability and reducing carbon emissions, but the industry has lacked technological advances to help achieve those goals — until now.

CarbonCure’s technology enables concrete producers to use less cement in their mixes and improve profitability while providing them with a powerful new differentiator in a competitive marketplace. Sensing the opportunity to strategically and sustainably grow their business, Lauren and CarbonCure met in 2019 to discuss what would become a fruitful partnership.

At a Glance

Company Name
Lauren Concrete

Plant Locations
Central, East and West Texas

4 Plants with CarbonCure

>250,000 yd³ Total CarbonCure concrete produced

>2,400 metric tons Total CO₂ savings
The Solution

Following the successful implementation of new technologies like GPS tracking to enhance fleet optimization, software for real-time quality monitoring, and sensors for gathering strength and temperature data, Lauren Concrete was eager to explore technologies to deliver greener concrete to its customers. CarbonCure was the next logical step on Lauren’s innovation journey.

Once CarbonCure was installed at Lauren’s pilot plant, the team tested its standard 3000, 4000, and 5000 psi mixes for various use cases. Approximately half of Lauren’s concrete volume is poured on residential projects, with 30-35% going to heavy commercial projects. The remainder is on specialty works like shotcrete and civil projects.

Fun fact: Lauren Concrete holds the distinction of supplying the one-millionth truckload of CarbonCure concrete. In December 2020, one of the Lauren Concrete trucks delivering concrete to the H-E-B Lake Austin project hit the jackpot!

“\textit{We were proud to get the millionth truckload — I know producers all over the country wanted that.}”

— Renee Drosche, Key Account Manager
Lauren Concrete
As of May 2021, Lauren Concrete is using CarbonCure in approximately 120 mix designs and growing steadily.

Lauren received no reports of any issues with the concrete delivered. In fact, customers were very pleased with the pumpability and finishability of the concrete and noticed no difference from the quality product they were used to receiving from Lauren.

One of the first commercial projects with CarbonCure was at the University of Texas at Austin, where Lauren was supplying the concrete for SpawGlass, the general contractor on the project.

At the University of Texas, almost every project has sustainability requirements, including objectives for low-carbon concrete. The University’s project engineers had a lot of questions about CarbonCure.

“Initially there was some hesitancy from the engineers, but we got in front of them and had those conversations, they bought into the product,” said Renee Drosche, Key Account Manager at Lauren Concrete.
The Results

As of January 2021, Lauren Concrete has delivered 6,755 cubic yards of concrete made with CarbonCure, diverting 73 tonnes of CO₂ from the atmosphere. That’s equivalent to 95 acres of forest sequestering CO₂ for a year.

As of May 2021, Lauren Concrete is using CarbonCure in approximately 120 mix designs and growing steadily.

The team at Lauren Concrete is convinced that CarbonCure makes good business sense and is in the process of expanding CarbonCure to all of its 24 plants.

“The combination of supply, operations, and cost efficiencies makes CarbonCure a no-brainer for us. We’ve had great feedback, and we have the data from our quality testing, so it just makes sense to put it everywhere,” said Renee Drosche.

“When we don’t have CarbonCure at certain plants, it makes us less efficient with our fleet. We’re prioritizing plants that are close to the locations that already have the technology so that we can run our entire fleet more optimally.”

— Renee Drosche, Key Account Manager
Lauren Concrete
CarbonCure is the leading provider of carbon dioxide removal technologies for concrete, with systems installed in hundreds of concrete plants across the globe.

For more information, visit carboncure.com or contact a CarbonCure representative at info@carboncure.com or +1 (902) 442-4020.