fortera ReAct™

UC Berkeley: Entrance, Staircase and Outdoor Recycling Area

Low-Carbon Concrete Pour

At the University of California, Berkeley, history and innovation are converging. Switch Station 8, a structure originally constructed in 1904 as a power plant and later transformed into an art museum, is undergoing another transformation. This time into a substation that will enable the university to generate clean energy by 2030. Fortera supplied ReAct™ Blend for critical high traffic elements of the project which require proven resilience, including two main entrances, a staircase, and an outdoor recycling receptacle area. The mix incorporated a total supplementary cementitious material (SCM) content of 56%.

"The fresh-state properties of the concrete containing 12% Fortera ReAct™ Blend demonstrated impressive workability, was easy to both place and finish and performed very well at the Berkeley Substation 8 Project. It looks excellent in its hardened, finished state too, having a very light albedo."

Eric Peterson, Director
Webcor Concrete Group

At a Glance

Location
Berkeley, CA

Date Poured
May 9, 2025

Yards Poured
5 yd^3 (3.9 m^3)

Project Partner
UC Berkeley

Placement Method
Tail Gate

Ready-Mix Partner
Central Concrete

Traffic
Moderate / High

General Contractor
Webcor Concrete Group

Usage
Exterior Slab on Grade

56 Day Strength
7,450 psi

45%
Reduction in CO_2

Building Entrances




Staircase


Recycling Area


Fortera Concrete Stamp (Entrance)

"The 56-day results from the UC Berkeley Substation #8 are impressive and speak to the strength of Fortera's ReAct™ product. It performed as promised, and we're encouraged by what this means for future applications."

David Bischoff, P.E., Senior Project Manager
Webcor Concrete Group

Mix Design

W/CM:
0.45

Cement Replacement:
56%

Aggregate:
1" Orca / Orca Sand

Slump:
5" (10cm)

Air:
2%

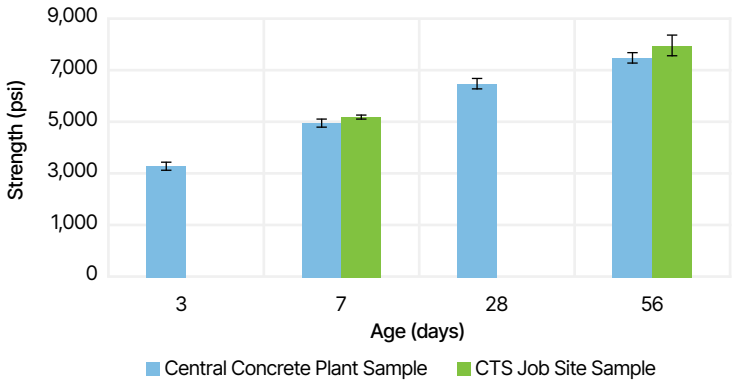
Unit Weight:
155.6 lb/ft³ (2377 kg/m³)

Design Strength:
5000 psi (21 MPa)

"Working with Fortera has been a fun and rewarding experience. Their team is responsive, collaborative, full of expertise, and committed to advancing low-carbon cement solutions. From planning through execution, they've consistently delivered, both in support and in product performance."

Alana Guzzetta, P.E., National Research Laboratory Manager
Vulcan Materials Company

Compressive Strength



Third Party Test Results

Age (Days)	Average Strength (psi)	Standard Deviation (psi)
3	3,140	78 (2.5%)
7	5,000	77 (1.5%)
28	6,620	135 (2.0%)
56	7,450	132 (1.8%)

View full report from Central Concrete here.