

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 CO₂



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)

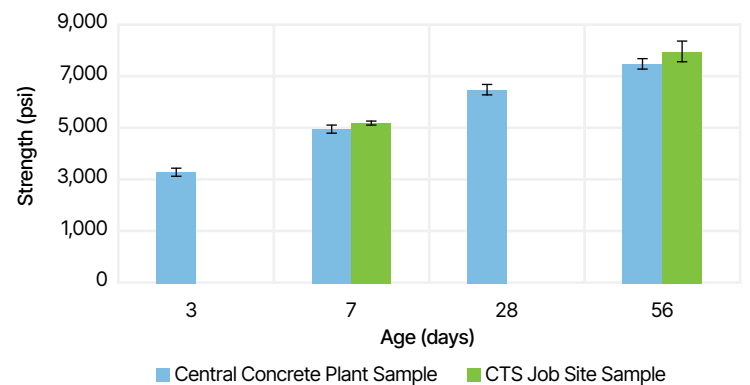
Design Strength:

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%)

