Fortera ReAct



Business, Technology, & Engineering Building

Low-Carbon Concrete Pour

Fortera provided 15 metric tons of ReAct[™] to Simpson University for the new Business, Technology, and Engineering Building, which will be home to the Maurice & Marianne Johannessen Veteran Success Center (VSC) and STEM program facilities, that include some new engineering and technology labs.

"The footing concrete poured just like our traditional mix designs. For slab-on-grade, placement and finishing were very similar to mixes containing fly ash. Saw cut control joints held an edge better than typical fly ash mixes, and we've observed no abnormal cracking to date."

Brian Kamisky, President SK Construction / Wards Concrete

At a Glance

Location Redding, CA **Date Poured** January – March 2025

Yards Poured 590 lb/yd³ (451 kg/m³) **Project Partners** Simpson University

Placement Method Boom Pump

Traffic Pedestrian

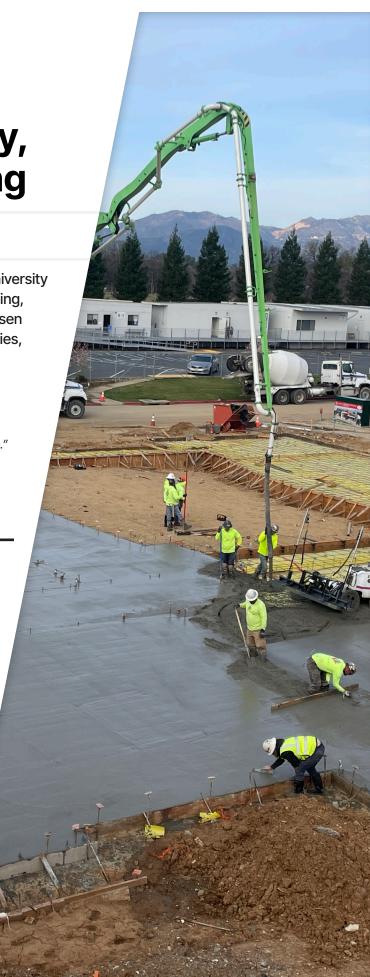
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Usage Foundation, Slab, and Columns Ready-Mix Partners Shasta Redi-Mix

General Contractor Gifford Construction

Concrete Contractor SK Construction



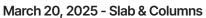


January 31, 2025 - Footings



March 10, 2025 - Slab







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Mix Design	Business, Technology, and Engineering Building (Rendering)
Total Cementitious Material: 541 lb/yd³ (321 kg/m³)	
W/CM: 0.55	
Cement: 90%	
ReAct [™] : 10%	
Aggregate	Weather - Footings
Gravel / Natural Sand	January 31, 2025 Light Rain / Low 43°F High 48°F
Slump: 4" (10cm)	Weather - Slab
Air: Non-Air-Entrained	March 10, 2025 Sunny / Low 45°F High 70°F
Unit Weight:	Weather - Slab & Columns
148.4 lb/ft ³ (2377 kg/m ³)	March 20, 2025 Overcast / Low 39°F High 59°F
Design Strength: 3,000 psi (21 MPa)	