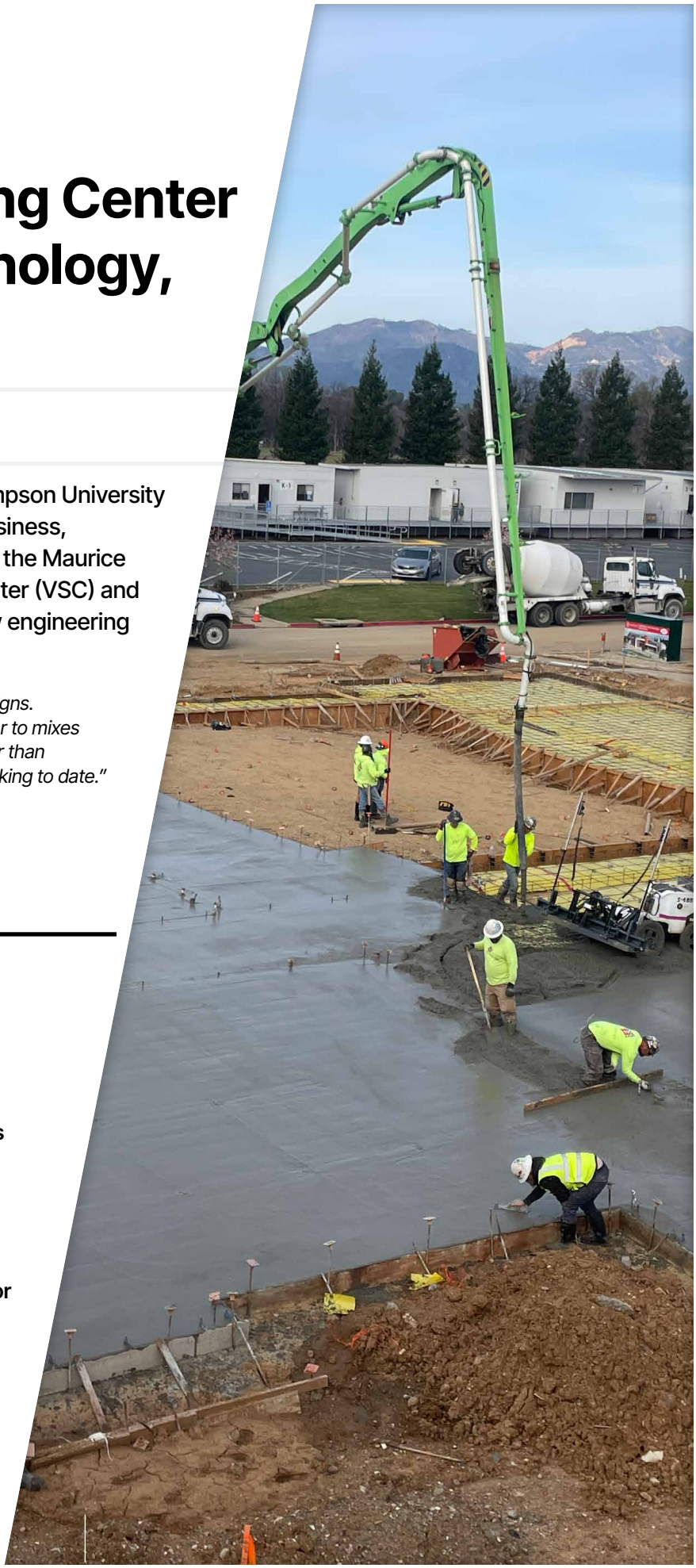
fortera ReAct

SIMPSON UNIVERSITY

Hugh & Hazel Darling Center for Business, Technology, & Engineering



Low-Carbon Concrete Pour

Fortera provided 15 metric tons of ReAct® to Simpson University for the new Hugh & Hazel Darling Center for Business, Technology, and Engineering, which is 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

Carbon Reduction
7%

Project Partners
Simpson University

Placement Method
Boom Pump

Ready-Mix Partners
Shasta Redi-Mix

Traffic
Pedestrian

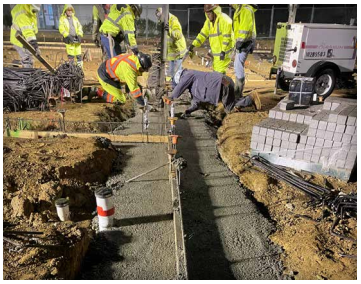
General Contractor
Gifford Construction

Usage
Foundation, Slab, and Columns

Concrete Contractor
SK Construction

590 yd^3
Concrete Poured (451 m^3)

January 31, 2025 - Footings



March 10, 2025 - Slab






March 20, 2025 - Slab & Columns






Mix Design

Total Cementitious Material:
541 lb/yd³ (321 kg/m³)

W/CM:
0.55

Cement:
90%

ReAct:
10%

Aggregate
Gravel / Natural Sand

Slump:
4″ (10 cm)

Air:
Non-Air-Entrained

Unit Weight:
148.4 lb/ft³ (2,377 kg/m³)

Design Strength:
3,000 psi (21 MPa)

Hugh & Hazel Darling Center for Business, Technology, & Engineering Building




Weather - Footings

January 31, 2025 — Light Rain / Low 43°F High 48°F

Weather - Slab

March 10, 2025 — Sunny / Low 45°F High 70°F

Weather - Slab & Columns

March 20, 2025 — Overcast / Low 39°F High 59°F

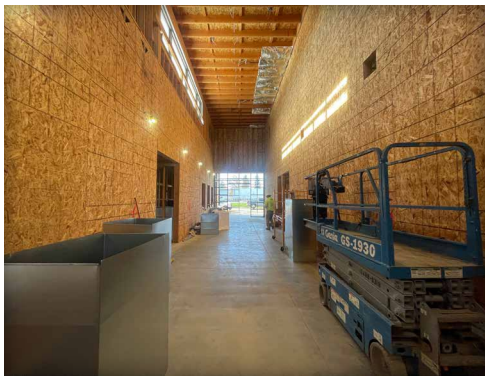
December 2, 2025 - Project Progress











October 21 , 2026 - Project Completed





