fortera
Paving the Way to Zero CO_2 Cement

ReAct®

Office Complex - Menlo Park, CA: Garden Pathway, Stairs, Topping Slab – Low Carbon Concrete

Sept 2011 & April 2012
dates poured

Location
Menlo Park, CA

Yards Poured
Garden Pathway & Stairs: 47.5 yd^3
Topping Slab: 3 yd^3

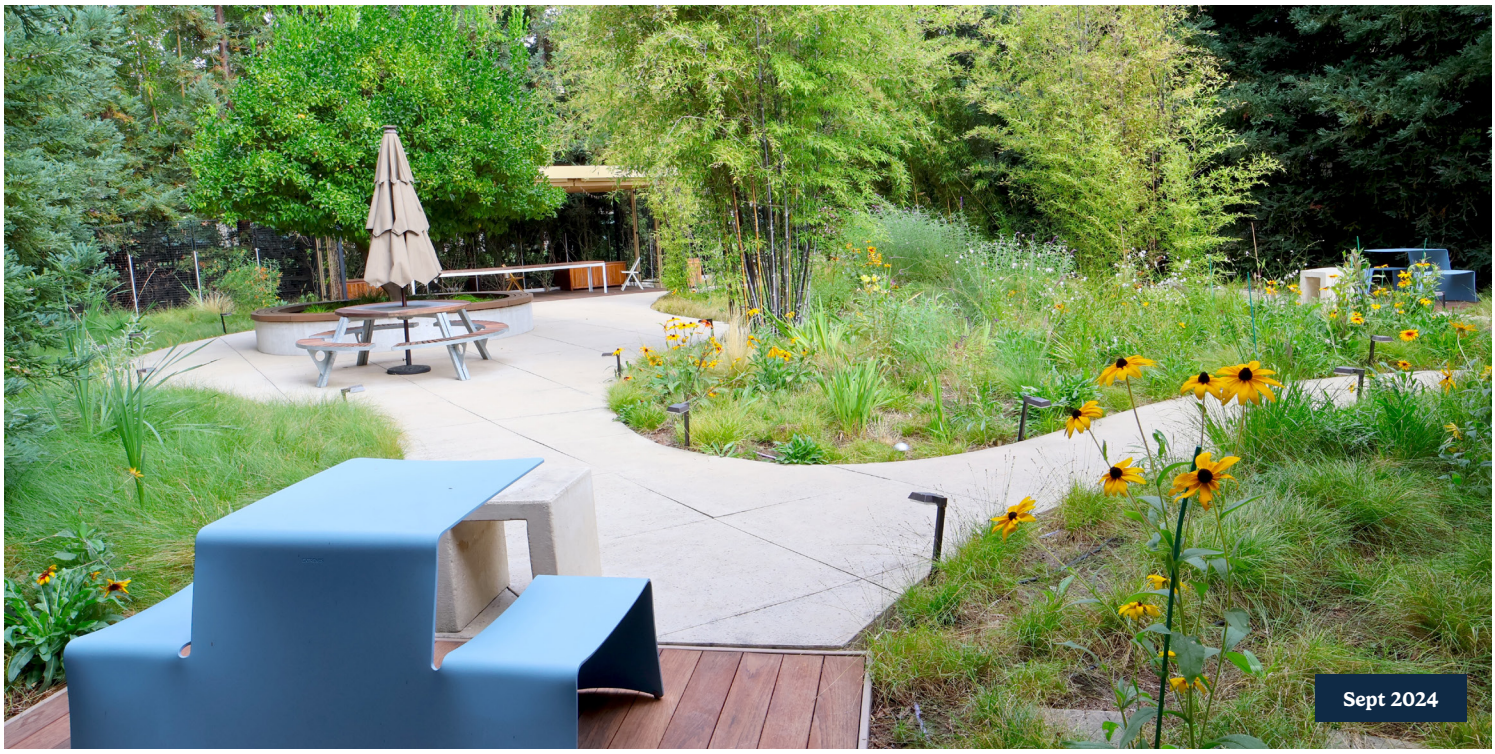
Contractor
Adorno Construction

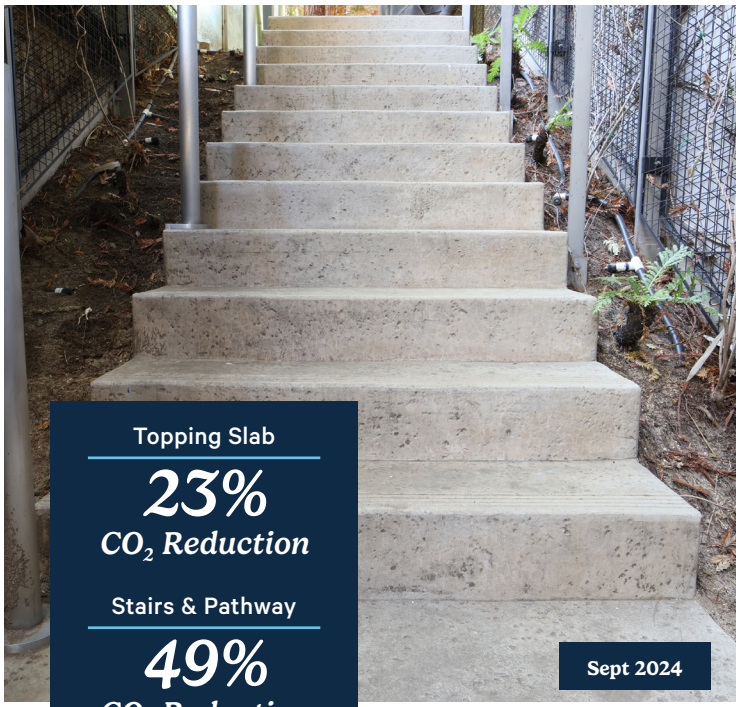
Ready-Mix Partner
Graniterock

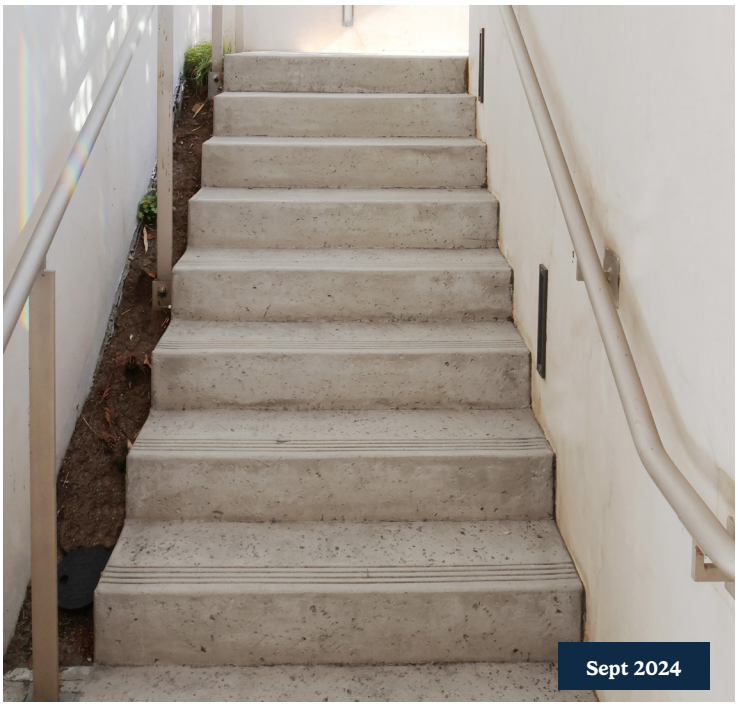
Placement Method
Line Pump

Traffic
Pedestrian

Usages
Garden Pathway
Stairs
Decorative Topping Slab for Garden Pathway







Topping Slab
23%
CO_2 Reduction

Stairs & Pathway
49%
CO_2 Reduction

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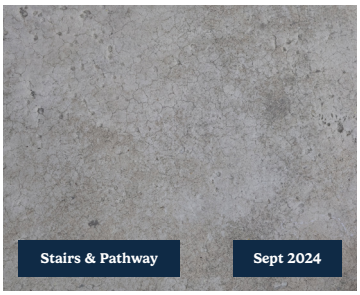
ReAct® Blend, a low CO_2 green cement solution, was selected to create a sustainable mix design for a multi-functional garden pathway. The project required decorative concrete that could seamlessly integrate with the garden's natural beauty and withstand the traffic of company-hosted events and employee day-to-day retreat areas. ReAct® Blend was also used for two stair-wells in the office complex. The requirement was a modern, durable, high-traffic solution that would blend with the overall campus design aesthetic.

Stairs | Sept 21, 2011: Sunny | High 84°F Low 54°F | 6 – 12 mph winds
Pathway | April 3, 2012: Overcast | High 66°F Low 45°F | 6 – 14 mph winds
Topping | April 27, 2012: Overcast | High 86°F Low 59°F | 7 – 15 mph winds


Topping Slab Sept 2024


Stairs & Pathway Sept 2024

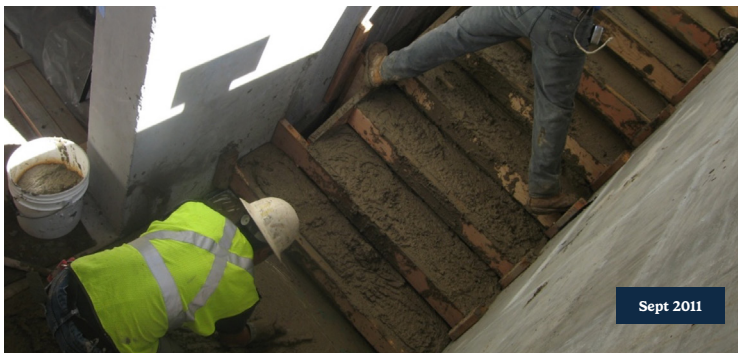
Mix Design

	Topping Slab	Stairs & Pathway
Total Cementitous Material	658 lb/yd^3	702 lb/yd^3
W/CM	0.45	0.45
Cement	White Cement - 71%	Lehigh Permanente II/V - 43%
Slag	20%	43%
ReAct®	Moss Landing Pilot Plant - 9%	Moss Landing Pilot Plant - 14%
Aggregate	1/2" Granite & Sechelt Sand	3/4" + 1/2" Granite & Natural Sand
Slump	4"	4"
Air	Entrapped 2.5%	Entrained 4%
Unit Weight	148 lb/ft^3	144 lb/ft^3
Design Strength	5000 psi	5000 psi


April 2012


April 2012


Sept 2011


Sept 2011


Sept 2011