fortera
Paving the Way to Zero CO_2 Cement

ReAct®

West Berkeley Senior Center:
Accessibility Ramp – Low Carbon Concrete

July 2011
dates poured

Location
Berkeley, CA

Yards Poured
4 yd^3

Contractor
City of Berkeley

Concrete Supplier
RIGHT AWAY

Placement Method
Tailgate

Traffic
Pedestrian

Usages
Accessibility Ramp

14%
CO_2 Reduction

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The City of Berkeley selected ReAct® Blend VC² ®, a vaterite calcined clay supplementary cementitious material, to construct an ADA-compliant accessibility ramp for the West Berkeley Senior Center. VC² was chosen for its ability to provide a high-performance mix design that resulted in a concrete with a lower carbon footprint, improved strength development, and enhanced durability—key factors for ensuring the ramp's long-term functionality and sustainability. The project demonstrates how Fortera's ReAct® Blend product can contribute to reducing emissions while achieving high construction standards.

This partnership is a great example of how innovative green cement technologies can be integrated into community-focused projects, advancing both environmental and social goals.

Partly Cloudy | High 72°F Low 52°F | 4 – 14 mph winds

Mix Design

- **Total Cementitous Material |** 470 lb/yd³
- **Cement |** Lehigh Permanente Type II/V - 80%
- **ReAct® |** Moss Landing Pilot Plant Vaterite Calcinated Clay Blend SCM (VC²)- 20%
- **Slump |** 4"
- **Design Strength |** 3000 psi