



PROJECT PROFILE



FAST-TRACK FLOOR REPLACEMENT AT WMMA

Food-Waste Recycling Plant Returned Back to Service on Schedule

Project Type:

Industrial

Application:

Concrete slab replacement

Location:

Chelsea, MA

Project Dates:

October 12, 2019

Project Owner:

WM Simpson

Contractor:

Suffolk Company

Project Size:

16 cubic yards

Product:

Rapid Set® Low-P™ FA1 Cement

Located just outside of Boston, Waste Management's Centralized Organic Recycling (CORG) facility in Chelsea, Mass., collects residential and commercial food waste, both packaged and unpackaged, and diverts that waste from landfills by preparing it for use as a clean energy source. About 50 tons of food waste is delivered to the facility daily, Monday through Friday. When it was time to replace the deteriorated concrete floor in the room where depackaging and contamination removal takes place, Waste Management needed the work to be done quickly, during off-hours, so as not to disrupt operations.

Suffolk Construction was contracted to remove and replace the reinforced concrete slab, which was 30 feet by 30 feet and 6 inches deep. To return the floor to service as quickly as possible, the contractor used Rapid Set® Low-P™ FA1 Cement.

Low-P FA1 is a polymer-modified hydraulic cement that sets fast and provides very high early strengths—typically reaching 3,200 psi within three hours. The material qualifies as very rapid hardening (VRH) per ASTM C1600 (Standard Specification for Hydraulic Cement). It also has low permeability, enhanced resistance to alkali silica reaction and contains a corrosion inhibitor to protect embedded reinforcement. All of which makes it an ideal material for fast-track projects where fast strength gain, long-life durability and corrosion resistance are desired.

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Work took place on a Saturday morning, with the contractor placing 16 cubic yards of material. Using a mobile mixer, the crew mixed Low-P FA1 cement with water and aggregates and poured the slab monolithically. They finished the surface via screed, followed by bull floats. After final finishing, the slab was wet cured and ready for traffic in two hours.

With the floor returned back to service within hours, the plant was able to open for business Monday morning with no disruption to operations.

CTS Cement Manufacturing Corporation manufactures Rapid Set professional-grade cement products for concrete repairs and new construction projects. Contractors, owners, engineers and architects choose Rapid Set to eliminate problems they have with other concrete repair materials, to save time and money, when superior durability is required and results need to be aesthetically pleasing. For more information about CTS Cement and Rapid Set, please visit www.CTScement.com.

ABOUT CTS CEMENT

