



ekkomaxx™ *Case Study*

ZERO CARBON CEMENT SYSTEM

USMC Camp Lejeune, North Carolina Rapid Boat Ramp 2/23/07

Overview

This project was conducted by the United States Marine Corps Pacific Experimentation Center to evaluate the potential of **ekkomaxx**®, CERATECH's ultra, high early strength, ready mix cement for use by operational forces for difficult, large volume pours where "Return to Service (RTS)", ease of use, minimized logistics requirements and reduced impact on engineering organizations.

Project Description

A coffer damn was constructed and ramp area dewatered to facilitate construction of the required formwork for a 20 ft x 45 ft. x 6 inch boat ramp and placement of a crushed stone bed.

Multiple, 2000 lb. Super Saks of **ekkomaxx**® were hoisted by a fork loader and emptied into transit trucks pre-charged with coarse and fine aggregates. CERATECH's proprietary activator admixture was also introduced at this time.



ekkoma^{xx}™
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Project Description (continued)

Material was mixed for 6 minutes then discharged into a boom pump for placement into forms. Ambient temperatures were approximately 45°F. with a strong and sustained breeze coming off the river.

USMC engineering students placed and finished the **ekkoma^{xx}**® cement concrete in industry standard fashion. Approximately 20 cubic yards were placed from 11AM to 1 PM.

By 6:30 PM later that evening, a 7 ton military vehicle was loaded onto ramp with no adverse damage to slabs.

Contact **CERATECH's Field Engineering Team** for additional project specifics. 1-888- 341-2600

