



KA MALANAI CONDOMINIUMS - KAILUA, HI

PROJECT DESCRIPTION

Ka Malanai Condominiums, in Kailua, HI, used a non-structural concrete topping, over a waterproof membrane, both on the lanais of the living quarters and on common area corridors. Originally the concrete mix design had a w/c ratio of .63 and was reinforced with a 3/4" micro synthetic fiber at a dosage of 1 lb/ cu yd. After control joints were cut into the concrete, shrinkage cracking occurred in excess, resulting in an unattractive appearance. To remedy this problem, FORTA-FERRO fibers were chosen. Tests were performed using a mix design with a w/c ratio of .50 and used 2 1/4" FORTA-FERRO macro synthetic fibers at a dosage of 5 lb/ cu yd. Using FORTA-FERRO to reinforce the overlay resulted in a decorative concrete topping that has **maintained the same appearance as the beginning of construction**. The owners have seen **less shrinkage cracking, more durability, and a superior finish**.

KEY POINTS

- Reduced Shrinkage Cracking
- Increased Durability
- Superior Finish

DETAILS

Date: 2014

Location: Kailua, HI

Dosage: 5.0 lb/cu yd

Fiber: FORTA-FERRO® 2-1/4"

Contact us for more details