

## CASE STUDY: FAST INSTALLATION

### Challenges

Remove and replace all existing heads while crew was still living aboard the USNS Cape Edmont in a timely manner. Previous old, heavy terrazzo materials with standard cement underlayments were cracked and leaking. Plus, the floors lacked adequate sloping to facilitate proper drainage. This allowed water to pond and destroy the decks as well as attack the steel underneath the flooring.

- Water damage caused oxidation in all shower and toilet areas
- Mildew and black mold was prevalent in many spaces
- Worn and unattractive appearance from years of use
- Need to work with crew to ensure quick turn around

### Key Benefits

- Durable, attractive finish
- Rust is mitigated which extends the life of the floor
- Waterproof system provides long lasting solution
- Skid resistant finish
- Fast cure allows for short turn around time
- Low odor, zero VOC materials make application painless for installers and crew
- Excellent chemical resistance
- Ability to install extra tall cove base and flooring thickness in one application

### Certifications

- US Navy
- Bureau Veritas
- INM - UK Navy
- IMO



In process after cleaning

### Providing Solutions

A qualified application company applied the SynDeck Ultra Lightweight Underlayment Terrazzo system in all heads. Ship was split up allowing all heads on Port side to be completed first. Upon removal of existing ceramic tile and underlayment, bleach was applied to kill any remaining mold and mildew. Due to the fact that the cove base was going 8 to 10 inches high it was installed on the first day. The floor terrazzo was completed the following day. The seal coat was applied the next morning and a clear coat was added at the end of the day. A final anti-skid coat was applied to complete the slip resistance called for in all showers. This allowed each side of the ship to be returned after a total of 8 days.

- SynDeck materials provided an attractive waterproof system within the tight time constraints of the ship's schedule
- Elimination of rust and durable finish will protect steel floors
- New lightweight materials were 4 times lighter than materials removed from floor. In large spaces this saves considerable weight on the vessel
- Lightweight materials made required 3 inch thick installation feasible to create proper sloping to existing deck drains

The logo for SynDeck, featuring the brand name in a bold, black, sans-serif font with a registered trademark symbol, set against a white background with green horizontal bars above and below.

Premium performance marine deck  
underlayment products & systems.

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## Application and Equipment

**Floor Area:** Heads & wet spaces

**Substrate:** Primed steel – can be applied directly to properly prepared bare steel (per US Navy Mil Spec 3135H)

**Products Used:** 1222 Bond Coat, 1290FC Ultra Lightweight Underlayment Terrazzo in salt & pepper, 5000 IMO Epoxy in clear

**Equipment:** Brush or roll epoxy materials, steel trowel to apply decorative, terrazzo underlayment

**Applicator:** Hiller Systems

## Proven Track Record

SynDeck products have been successfully used in Marine environments for more than 30 years. Starting with a base of installations in the US Navy, the line was improved and expanded to meet a wide range of marine environment needs. SynDeck products are a fraction of the weight of traditional materials, highly durable, waterproof and very user friendly for easy application. The SynDeck line's unique combination of premium performance features maximizes its versatility in varied marine applications.



Finished head after SynDeck



Ship at port



Heads before

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