

CASE STUDY: WEIGHT SAVINGS

Challenges

A UK Royal Fleet Auxiliary (RFA) Navy ship needed urgent replacement of all its main walkways and various service rooms. The failed cement and resin systems had been repaired and recoated many times, but a long term solution was required.

- Water damage resulted in considerable oxidation and the potential for future structural integrity failures
- Poor run to drains and inconsistent flooring levels
- Cracks and delamination of the coatings were causing cleaning, safety and maintenance issues
- Removal of over 33,000LB/15,000KG of old, heavy underlayment

Key Benefits

- Applied only 6,000LB/2,700KG of new Ultra Lightweight Underlayment
- Ability to slope flooring to drains and create consistent flooring levels
- Oxidation is dramatically mitigated, which extends the life of the floor
- Waterproof system insures installation longevity
- Slip deterrent finish provides safety
- Low odor, zero VOC materials make application painless for installers and crew
- Easy cleaning and maintenance
- Excellent chemical resistance provides durability

Certifications

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



Providing Solutions

A qualified application company applied the SynDeck 1290FC Ultra Lightweight Underlayment system with various colored IMO resin finishes to all the floors across the gangways. The Bond Coat and Ultra Lightweight Underlayment applications were completed on the first day of the installation. The IMO resin color coats were applied on the second day. Then, a slip resistant enhanced clear coat was applied on the third installation day.

- New lightweight materials were 4 times lighter than materials removed from floor, saving over 27,000LB/12,000KG of weight on the vessel
- SynDeck materials provided an attractive waterproof system within the tight time constraints of the ship's schedule
- Eliminating the potential for oxidation and providing a durable finish will protect steel floors

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Premium performance marine deck underlayment products & systems.

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Application and Equipment

Floor Area: 3,800 square feet/350 square meters of gangways and service rooms

Substrate: Prepared steel

Products Used: 1222 Bond Coat, 1290FC Ultra Lightweight Underlayment in red & gray, and 5000 IMO Epoxy in clear

Equipment: Brush or roll epoxy materials, steel trowel to apply underlayment, roll epoxy final finishes

Applicator: Local SynDeck Application Company



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.



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