

CASE STUDY: WATER RESISTANT

Challenges

A South American oil rig build needed an underlayment system that could withstand climate constraints during installation and provide long term water resistant protection to the sub floor. The extreme tropical climate conditions significantly limited the installation time frame into this new build. Additionally, the 2 inch (50.8mm) thick mineral wool sub floor was covered with a non-welded steel sheeting laid on top, requiring a secure bonding system between the two. Further, a water resistant underlayment system was imperative for overall structural integrity protection.

- Needed a product that could be applied in one application with high humidity
- Required a high performance system that wouldn't crack or let in moisture
- Crane service not available to lift materials onto rig

Key Benefits

- Lightweight materials eased the work of the crew in hand carrying them onto the rig
- Waterp resistant properties 1290FC Ultra Lightweight Underlayment provides long term solution
- Able to install 1 inch (25.4mm) thick system in one application
- Fast cure time allowed completion of finished flooring in a short time
- Epoxy system cures are not slowed by humid conditions, like standard concrete systems
- Low odor, zero VOC allowed crew to work safely in small, enclosed spaces
- Ease of training to install SynDeck system



Certifications

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

Providing Solutions

After on site training, application company applied the SynDeck 1290FC Ultra Lightweight Underlayment system in several hours to each space released.

- SynDeck materials provided an effective water resistant system that could be installed within the tight time constraints of the new build schedule
- Elimination of rust and durable finish will protect steel floors
- New lightweight materials were 4 times lighter than materials removed from floor, saving considerable weight on the rig
- High compressive strength prevented cracking that would expose the steel sheeting and mineral sub floor to moisture

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.*

www.syndeckmarine.com

Application and Equipment

Floor Area: Work shops, Electrical equipment spaces, Crew rooms

Substrate: Primed steel

Products Used: 1222 Bond Coat, 1290FC Ultra Lightweight Underlayment

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

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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syndeckmarine.com

US: 1.877.99.EPMAR

UK: +44 (0)1453 820800