Baltoflake

Proven maintenance free protection beyond 30 years

Offshore wind environments can be challenging, and especially splash zones are subject to intense forces.

An independent study by DNV, the world's largest classification society with a globally renowned testing, certification and advisory services for the energy sector and maritime industry, has demonstrated that Jotun Baltoflake can provide more than 30 years of maintenance-free steel protection in splash zones.

Eliminating splash zone repair

In the harsh environments offshore, opportunities to carry out maintenance, and especially in the splash zones are limited, making unplanned repairs unpredictable, expensive and time consuming.

Products like Baltoflake, based on glass flake reinforced polyester technology, can help eliminate maintenance of splash zones, offering protection matching the design life of the asset. This allows operators to do what they do best – focus on creating clean, renewable energy, without planned or unplanned downtime to make repairs in the splash zone.

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Methodology

In the study, DNV inspected a section of jacket from a North Sea oil platform which was installed in 1972 and decommissioned in 2020. Jotun's Baltoflake coating was applied to the platform in the late 1980s, and despite over 30 years' exposure to the North Sea's harsh environment, analysis revealed that the coating at the splash zone was intact, still smooth and showing no signs of delamination.

Enabling the future of energy

Proven, long-lasting corrosion protection can help ensure offshore wind projects are being realized with expected design life. Corrosion allowances for jackets in the oil and gas industry are thought to be conservative for structures typically coated with Baltoflake. With no risk of oil and gas leakages in offshore wind, offshore wind turbines can potentially benefit from lower corrosion allowances, with an even longer lifetime than the beyond 30 years of protection already experienced in the oil and gas sector.

BEYOND 30 YEARS
Maintenance free

Find out more at jotun.com/baltoflake

Decades of flawless performance at the splash zone

- A Norwegian-operated FPSO was refurbished in 2020 after 22 years in service, allowing for inspection by DNV.
- A visual inspection of the section of jacket from a North Sea oil platform coated with Baltoflake had been exposed to both the atmospheric and splash zones of the structure. Both areas were found in a good condition after 22 years of exposure.
- A visual inspection of the North Sea oil platform steel revealed that the coating at the splash zone was intact, still smooth and showing no signs of delamination after more than 35 years in the North Sea.
- Further examinations were carried out on a 4m section of the North Sea oil platform steel brace and examined at DNV's lab. The general condition of the coating was good, with good fitting to the rugged surface. No blistering, rust, cracks or other visual defects were observed.
- Further spectroscopy revealed the coating remained intact with no significant coating degradation.

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