

Project Profile - Coastal Structures



PROJECT

**Tywyn Coastal Defence Scheme,
Gwynned**

SUMMARY

Repair of Deteriorated Reinforced
Concrete Sea Defence Wall

PRODUCTS

**Steel Reinforcement Protector 841
Marine Mortar S**

CLIENT

Gwynned County Council

CONTRACTOR

Concrete Repair Technology Ltd on
behalf of Jones Bros (Ruthin) Co Ltd

BACKGROUND ►

The £7.6m Tywyn coastal defence scheme was developed by Atkins in order to protect the picturesque sea-front properties from the threat of flooding.

Since construction in the 1930's, the sea defences had regularly suffered attack from storms, with significant impact damage from rock resulting in the inevitable need for structural reinstatement. With marine mammals such as dolphins, porpoises and seals often seen from Tywyn seafront, the repairs had to be conducted on time with minimal environmental impact.

THE SOLUTION ►

The specification called for the use of high performance mortars for hand application and for pourable repairs. After the use of **Steel Reinforcement Protector 841** on the cleaned rebars, **Marine Mortar S** was hand applied to the prepared concrete wall as it has early resistance to tidal wash-out. To re-profile the crest of the wall, specially shaped formwork was installed into which Monopour PG & PC6 were inserted via a letterbox entry to match the existing shape. **Marine Mortar S** is a high strength mortar which is mixed with water and applied directly to saturated concrete.



FM 41091
EMS 597350
OHS 597351

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