

Project Profile - Coastal Structures



PROJECT

Malpas Jetty, Truro, Cornwall

SUMMARY

Repair and protection of a reinforced concrete jetty in a tidal zone

PRODUCTS

Steel Reinforcement Protector 841
Marine Mortar S
Monomix
Cementitious Coating 851

CLIENT

Victoria Quay Residents Association

BACKGROUND ►

Originally constructed in the 1980's, the privately owned Malpas Jetty had been subject to constant exposure to sea water spray and tidal erosion.

As a consequence, urgent repairs had become necessary to make the structure safe and extend the service life, as large scale failure of the soffits and cross beams had occurred

THE SOLUTION ►

The scale and complexity of the work dictated the use of a range of Flexcrete products. After a full diagnosis of the faults, all loose and defective concrete was cut out to reveal the steel reinforcement which was grit blasted to Sa 2½ and treated with two coats of **Steel Reinforcement Protector 841**. To reinstate the columns in the tidal zone, **Marine Mortar S** was chosen because of its early resistance to wash out. For other overhead repairs, the contractor used **Monomix**, a medium weight high build mortar for hand applied repairs. On completion of the repairs, all areas were treated with 2mm of **Cementitious Coating 851** to provide long term chloride protection, thus significantly extending the service life.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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