

CASE STUDY: LIGHTHOUSE**LOCATION:** GUINCHO PORTUGAL**MARKET:** MARINE

REQUIREMENT: The client was responsible for the maintenance and upkeep of all the lighthouses on the Atlantic coast of Portugal. This lighthouse at Guincho, 25km NW of Lisbon, was more than 100 years old and was constructed from cast iron with a copper roof. Heavy air borne salt and strong winds created a particularly aggressive coastal environment. Additionally, UV light also affects the colour retention.

SURFACE PREPARATION: Surfaces were hand prepared to St2 standard of EN ISO 8501-1:2007 using a combination of wire brushes, scrapers and mechanical tools followed by Hydro blasting to remove salt contamination.

COATINGS: DFT**Externally:**

Corroless EPF Buff	200 microns
Corroless RF65	50 microns
Corroless RF65	50 microns

Stripe coats were applied where appropriate.

Internally:

Corroless SHB Buff	90 microns
Corroless RF16	60 microns

Stripe coats were applied where appropriate.

Finally when the coatings were cured all bolts and crevice areas were then treated with CCI450 by brush.

