

constructive solutions

CUSTOMER	Australian Maritime Safety Authority
SPECIFIER	McElligotts
CONTRACTOR	Marine & Civil Maintenance
SECTOR	Government, Heritage
DATE	2019

PRODUCTS

- Fosroc Renderoc LA55
- Fosroc Renderoc HB40
- Fosroc Nitoprime Zincrich
- Fosroc Nitofill LV
- Fosroc Nitoprime 120
- · Fosroc Nitoband EJB Tape
- Fosroc Nitoproof 810
- Fosroc Nitoproof Top Coat UV







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CASE STUDY Cape Naturaliste Lighthouse

South West WA



In its exposed position in a highly corrosive environment, this working lighthouse required concrete remediation works before a full repaint. The balcony walkway needed a non-slip waterproofing solution.

THE PROJECT

The government asset manager tasked McElligotts with keeping the lighthouse's heritage features intact while lifting its appearance and protecting it well into the future. There was significant concrete cracking and spalling both inside and outside the lighthouse, including the balcony and floor support corbels.

THE SOLUTION

A range of Fosroc and other Dulux Construction Solutions products were used in the concrete repair and repaint executed by Marine & Civil Maintenance.

Step 1: All damaged concrete was broken out.

Step 2: All exposed steel reinforcement was primed with Fosroc Nitoprime Zinrich to actively resist corrosion.

Step 3: Fosroc Renderoc LA55 was used for deep section patch repairs while Fosroc Renderoc HB40 was used for vertical and overhead repairs.

Step 4: The Fosroc Nitofill LV injection system was used to repair cracked concrete that did not require breaking out.

Step 5: The balcony walkway was primed with Fosroc Nitoprime 120, with Fosroc Nitoband tape used to seal critical movement zones. Two coats of waterproofing membrane Fosroc Nitoproof 810 were followed by two coats of Fosroc Nitoproof Top Coat UV.

Step 6: Emer-Clad Facade was used to waterproof and protect the facade surrounding the lighthouse beacon.

Step 7: Dulux Protective Coatings Durebild STE and Weathermax HBR were used to repaint the entire lighthouse.

THE BENEFITS

Often used with Nitoprime Zincrich, Renderoc LA55 and Renderoc HB40 offer a proven system for high build concrete repairs. These repair mortars meet the requirements of EN1504-3 Class R4 and R3 respectively.

Nitofill LV is a cost effective and easy to use crack repair system. Its high strength, low viscosity formula allows penetration into the finest cracks and excellent bond to concrete and masonry.

For highly exposed walking surfaces, Nitoprime 120, Nitoproof 810 and Nitoproof Top Coat UV together deliver class P5 slip resistance.

The Fosroc team worked with Dulux Protective Coatings and Emer to provide a complete project solution.

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