

CORRPRE EXTERNAL SACRIFICIAL ANODES
SYSTEM FOR EXTENDING THE SERVICE LIFE
OF JETTY STRUCTURE



PULAU PAYAR MARINE PARK JETTY, LANGKAWI April 2009

Corrpre external plate sacrificial anodes system was adopted to mitigate the ongoing corrosion of the embedded rebars in the reinforced concrete beam members as part of the overall concrete remediation program of the jetty structure.

The sacrificial anodes system would extend the service life of the structure for more than 15 years in the chloride environment. The incorporation of the sacrificial anodes to slow

down or halt the process of corrosion of embedded rebars in the chloride environment also helps in the green index i.e. reduction of concrete spalling requiring future repairs with new concrete thus reducing the carbon footprint.

The repairs system material adopted the concept of “concrete durability” for repair of existing spalled concrete cover using “self

compacting concrete (SCC) with Xypex proprietary crystalline technology to provide the repair material the ability to withstand the in-service conditions for which it is designed, without significant deterioration.

Corrpre sacrificial anodes and Xypex crystalline technology adopted in the repair program falls under the “green Product” category - any product that can save energy,

reduce waste, increase the service life of a structure and lessens the requirement for future maintenance, contributes positively to the environment with an emphasis on sustainability.

The project was successfully completed and the galvanic protection is working well and as expected based on tests carried out after completion.