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SIKA AT WORK

LIKULIKU LAGOON RESORT, MALOLO ISLAND, FIJI

REFURBISHMENT

BUILDING TRUST



LIKULIKU LAGOON RESORT, MALOLO ISLAND, FIJI

PROJECT DESCRIPTION

Likuliku Lagoon Resort is an exclusive adults-only resort featuring iconic over-water bures set within a pristine ocean lagoon. The bures are supported by reinforced concrete piers and beams that, due to the nature of being in the sea, had deteriorated over time due to chloride-induced corrosion, resulting in concrete spalling. A comprehensive concrete remediation programme was undertaken to restore the structural integrity and long-term durability of these stunning resort structures.

PROJECT REQUIREMENT

Due to the resort's remote island location and the absence of local concrete batching facilities, a bagged concrete solution was required that could be easily mixed on site with water and used to recast the deteriorated concrete piers and beams. The selected solution needed to be self-compacting and pourable, with rapid setting and high early-strength development to enable efficient remediation works and minimise downtime, allowing the over-water bures to be returned to service as quickly as possible.





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CHALLENGES

- Remote island location created logistical and accessibility challenges for the delivery of materials, equipment, and contractors
- Tight construction programme required remediation works to be completed during the resort's low season to minimise disruption and enable the rapid reinstatement of guest accommodation
- Aggressive marine environment (C3 Zone) exposed the concrete structures to ongoing chloride attack, requiring a durable repair solution capable of withstanding harsh coastal conditions

SIKA SOLUTION

Sika delivered a complete concrete repair and protection system to restore approximately 218,000 litres of deteriorated concrete and enhance long-term durability in the marine environment.

The solution included 6,240 kg of Sika MonoTop®-910 N to provide reinforcement corrosion protection and resistance to water and chloride penetration, 340,000 kg of Sika MonoTop®-438 R for structural concrete repairs, 2,400 L of Sika FerroGard®-901 S

corrosion inhibitor to protect embedded steel reinforcement, and 300 kg of Sikagard®-706 Thixo water repellent to reduce future chloride ingress. Together, these systems restored the structural integrity of the concrete elements and helped minimise future maintenance costs through enhanced durability and long-term protection.

PRODUCTS USED

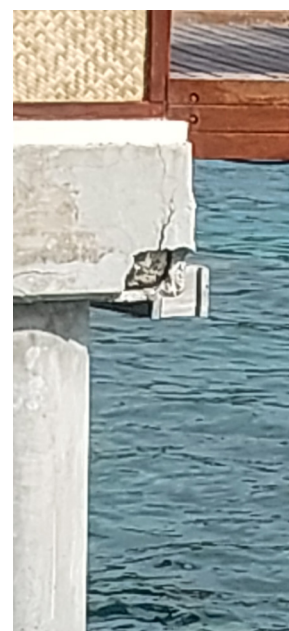
Sika MonoTop®-910 N
Sika MonoTop®-438 R
Sikagard®-901 S
Sikagard®-706 Thixo

PROJECT PARTICIPANTS

Main Contractor: Likulike Lagoon resort
Specialist Contractor: Carr Consultancy



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