

Everdure CALTITE System

Hydrophobic Pore-blocking Ingredient (HPI)



Project Seabird Naval Base

Phase 1B: Shiplift Civil Works; Contract No: DGSB-04/2002-03



Project Seabird is the Indian Navy's premier defence project to meet India's strategic needs in the coming decades, through a futuristic naval base at Karwar (Karnataka). Project Seabird, covers more than 8000 acres of land along the western coast, and entails creation of operational base facilities to handle a large number of warships and aircraft, along with a dockyard for repair, refit and modernization of ships and submarines. On completion, the naval base will be the largest this side of Suez.

The engineer appointed by the Department of Defence for carrying out the design, supervision of construction and contract administration for the Shiplift Civil Works was REDECON Australia Pty Ltd, a fully owned subsidiary of Sinclair Knight Merz. The contractor engaged for executing civil works is M/S [SKANSKA Cementation India Ltd](#) under Contract No. DGSB04/2002-03, awarded at end November 2002.

To ensure maintenance-free design-life durability of the high quality pre-cast and in-situ marine concrete, all sections below RL +3.5m were specified to include **Everdure CALTITE Hydrophobic Pore-blocking Ingredient (HPI)** in the concrete mix. This includes:

- Pile caps
- Service duct base and walls to underside of roof
- Shiplift beams
- Edge beams
- Support beams for Shiplift Control Building/DSS-5
- Light tower foundations
- Sewage/Oily Bilge Intermediate Storage Tanks
- Trade waste collection pit
- 20m length of service duct to each of the Dry Berth and Washdown Berth
- 20m length of service duct east of eastern limit of Pier No. 1
- Pipe outfalls



**Project Seabird; Pier No. 1 & Shiplift Piers
CALTITE pre-cast & in-situ marine concrete**

