

Grout Bag Engineering: Proserve Contractor: Mota-Engil.



Proserve's armour repair grout bag system was used to form in situ concrete infill repairs to voids in Accropode II revetment protection on the island of Fogo, Cape Verde. 8 No voids were filled using the system, using grout bags of 6 m³ volume. The grout bags were pump filled in situ with highly fluid sand:cement micro concrete to repair interlock and stability between Accropodes.

Advantageously, the lightweight in situ repair system is readily installed by the Contractor using conventional plant. The system does not require heavy lifting equipment or large marine plant.

A standard type infill bag was developed which could be installed horizontally or vertically, according to the void orientation. Construction was conducted above water in the dry. (The system may also be installed by Divers).

Proserve undertook site specific Construction Engineering of the system suitable for the site conditions and the Contractors selected working method. The sand:cement micro concrete was developed locally by the Contractor with assistance from Proserve, and mixed and pumped on site using locally available mini-mixers.

The grout bags were positioned into the voids, temporarily supported by scaffold tubes, and filled in situ with the fluid micro concrete mix. Surplus grout bag fabric allowed the concrete to adequately fill the space in the void and form concrete interlock with neighboring Accropodes.



Grout Bag Held in Position



Void between Accropode II units