Case Study

Project: Langebaan Lagoon
Client: Saldanha Bay Local Municipality
Consultant: Prestedge, Retief, Dreschner, Wijnberg
Contractor: VDM Construction
Date: May 2002
Product: bidim® A6

The town of Langebaan’s rapidly eroding coastline had for many years been a real concern for property owners whose properties are in close proximity to the water line. Different designs had been considered to stop the erosion, but a lack of funds prevented the construction of adequate erosion protection.

At the end of May 2002 the West Coast experienced severe storms with high seas, which posed a real threat of major damage to these vulnerable properties.

To combat the critical situation a cost-effective breakwater had to be constructed rapidly. A geotextile was required for separation and filtration between the sand, and riprap to prevent washout of the sand, which would otherwise cause settlement of the rock protection.

With large blast rock, ranging in diameter of 0.5 to 1.0 mt, mechanically placed directly onto the geotextile as well as the abrasive wave action, it was essential the geotextile offered high strength, conformability and durability characteristics.

bidim® A6 exhibits such properties to maintain the integrity of the breakwater berm in such harsh, dynamic flow conditions pertaining to the site.