



Coastal Protection Geofabrics HPS11C

Geofabrics HPS11C has been successfully installed below the rock armour on Aberavon Beach near to Port Talbot.

The purpose of the works was to prolong the life of the promenade structure and adjacent shoreline in line with the Neath Port Talbot County Borough Council's Shoreline Management Plan protecting residential and commercial properties from coastal erosion and facilitating regeneration for future generations.

Geofabrics HPS11C is a thick needlepunched non-woven geotextile manufactured from 100% virgin polypropylene high tenacity fibres containing 1% active carbon black. The main function of HPS11C is to prevent loss of the sub-soil from below the rock armour. With challenging low particle size subsoils, the HPS11C was ideal with its combined filtration and permeability characteristics whilst its high tensile elongation and CBR provided a robust solution capable of withstanding the rock impact during installation.

Project Information

Location	Aberavon Beach, Port Talbot.
Product	HPS11C Geotextile (6m x 85m)
Contractor	McCarthy Contractors (Bridgend)
Installation Date	November 2019 – April 2020

Main Contractor Knights Brown appointed McCarthy Contractors to carry out the rock armour placement. Works commenced in November 2019 and completion is expected by May 2020.

The **benefits** of using Geofabrics HPS11C:

- **Easy installation** – 6m wide rolls
- **Manufactured for performance** – high tenacity fibre
- **Bespoke roll length** – minimising joints
- **Isotropic properties** – strength in all directions
- **High tensile elongation** – sufficient stretch during rock placement
- **Puncture resistance** – manufactured to CBR value considering rock weight, drop height and factor of safety
- **UV Stabilised** – active carbon black
- **100% virgin polymer Fibres** – 100 years durability

For more information on our Coastal Products please contact our Sector Manager Chris Daykin at cdaykin@geofabrics.com