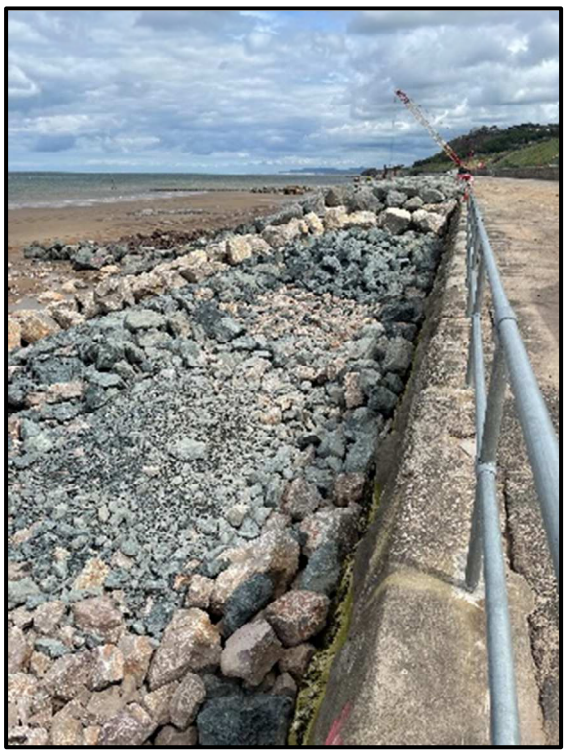
Old Colwyn Promenade

Coastal Protection – HPS17C Coastal



Project Information	
Location	Old Colwyn Promenade, Colwyn Bay, Conwy, Wales
Product	HPS17C Geotextile (6m x 60m)
Contractor	Alun Griffiths
Client	Conwy County Council
Engineer	Aecom
Installation Date	May 2021 – September 2022

Coastal Protection - Geofabrics HPS17C

Geofabrics HPS17C has been successfully installed below the rock armour on Old Colwyn Promenade Coastal Defences in North Wales.

The work targeted sections of Old Colwyn Promenade most at risk of collapse. Rock armour was placed in front of the seawall and promenade to provide protection from the erosive action of the wave impact. Improved beach access and a fishing platform were also installed during the 18 month contract.

Geofabrics HPS17C is a thick needle punched non-woven geotextile manufactured from 100% virgin polypropylene high tenacity fibres containing 1% active carbon black. The principal function of HPS17C is to prevent loss of the sub-soil from below the rock armour. With challenging low particle size subsoils of the North Wales coastline, HPS17C 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.

The **benefits** of using Geofabrics HPS17C:

- **Easy installation** – wide width rolls reducing the number of rolls to be placed
- **Manufactured for performance** – high tenacity fibres needle punched to create an effective filter for the fine grain subsoils
- **High tensile elongation** – sufficient extensibility is key to providing contact with the rock and preventing spanning
- **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
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