

GEOSYNTHETICS

BR ERSN 0840-01/2019 R1



ENVIRO ROCK[®] 3PL

Geotextile Containers

User friendly solutions to Erosion Problems



JHB: Tel +27 11 922 3300
CT: Tel +27 21 531 8110
KZN: Tel +27 31 717 2300
EL: Tel +27 43 727 1055
PE: Tel +27 41 453 0755

WEB: www.kaytech.co.za

ordersjhb@kaytech.co.za
salescpt@kaytech.co.za
ordersptn@kaytech.co.za
salesel@kaytech.co.za
adminpe@kaytech.co.za



EnviroRock® 3PL multi-layered geotextile containers are extremely robust and are designed to be filled with sand, soil, gravel, recycled material, treated materials or a combination thereof to form a stable, durable container.



ENVIRO ROCK® 3PL

The versatility and durability of **EnviroRock® 3PL** provides solutions to structures such as walls, groynes, reef structures, flow control structures and other applications in marine and inland waterway environments. The geotextile containers are made from a specifically designed and manufactured multi-layered nonwoven, needlepunched, staple fibre and continuous filament geotextiles reinforced with a high strength composite fabric. Enhanced filtration combined with resistance to puncture abrasion, excessive elongation and UV, makes **EnviroRock® 3PL** ideal for use in coastal applications providing maximum durability in harsh conditions. The sewn seams are uniquely configured and constructed to maximise the mechanical characteristics of the multi-layered composite geotextile and provide long-term durability in a wide range of environments.

Our geotextile container product range covers a large array of sizes and systems; from hand-filled 40kg geobags and the mid-sized **Geocontainer®** range, to the hydraulically-filled **EnviroRock® 3PL** containers and mega-containers.



Sea Walls and Revetments

EnviroRock® 3PL geotextile containers are specifically designed for use in the marine environment. The durability, permeability, stability and flexibility of the containers provide an excellent solution for constructing sea walls and revetments.

EnviroRock® 3PL geotextile containers have several advantages over traditional sea wall construction methods. They utilise insitu materials, thereby reducing imported materials and beach contamination to provide a soft solution improving the amenity of the site. A range of finishes are available from secondary dune protection using a heavy duty **Geocontainer®** to primary structures utilising highly durable, colour blending, vandal deterrent **EnviroRock® 3PL** geotextile containers.



Groynes and Breakwaters

The robustness and stability of the **EnviroRock® 3PL** geotextile containers also provide solutions for other marine structures such as groynes and breakwaters.

These structures extend out into the wave zone and provide marina and beach protection, sand movement control and river training. The size of the geotextile container can easily be selected based on the wave climate and other conditions ensuring stability under the most extreme conditions.

As an alternative to traditional rock structures, the geotextile containers and tubes constructed with the vandal deterrent geotextiles are durable enough to not only be used in the foreshore environment, but also in the exposed marine environment. These vandal deterrent containers have a soft finish and the ability to blend into the existing environment creating a more visually acceptable amenable structure.



Riverbank Protection

Increased boating activity and public waterway use has led to increased erosion of riverbanks and lake shorelines.

EnviroRock® 3PL geotextile containers can be used for inland applications providing a variety of functions including: revetment structures, erosion and scour protection structures, slipway protection and groynes. The flexibility of these containers allows a range of fill materials to be used whilst providing a cost-effective, efficient solution. The durability, UV stability, filtration and abrasion resistance of **EnviroRock® 3PL** geotextile containers make them ideal for use in the inland waterway environment.



Other Applications



Custom Structures

EnviroRock® 3PL geotextile containers can be used in many other applications. They can be customised to any feasible size or material type and used for such applications as artificial reefs, raised garden beds and beach access stairs. The range and capabilities of our manufacturing facility makes even the most difficult applications possible.



Temporary and Emergency Structures

The construction methods used to create the **EnviroRock® 3PL** structures can also be applied to temporary structures and emergency protection measures. Temporary structures such as bunds or cofferdams can be quickly constructed and either removed or buried as part of continued construction. Their rapid deployment facilitates use for emergency protection works such as sea wall toe protection and sand dune protection.

EnviroRock® 3PL structure and materials provide a cheap solution which can be easily removed once the structure has served its purpose, whilst not posing an injury risk to beach users. The rapid deployment, construction methods and specialised equipment allow installations in difficult areas and conditions.

DISCLAIMER: The application, handling and conditions of use of our products are critical and beyond our control. Information given by us in our documentation or orally, or by any employee or agent and any advice, recommendation or assistance, is given in good faith but without creating any obligation or warranty.

© Kaymac (Pty) Limited t/a Kaytech 2023