

Secumat® Green Coco N

 Naue

The biodegradable coir nets



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Building on sustainable ground.

Secumat® Green Coco N is a sustainable, temporary erosion control solution. It comprises a two-ply, 100% untreated coir fibre which is mechanically woven into a net in the warp and weft and is completely biodegradable.

Secumat® Green Coco N thus delays surface run-off and stabilises the surface of the soil, significantly reducing the risk of soil erosion. We have three variants of coir net which means we can meet many different project requirements in terms of tensile strength and service life.

Typical applications for Secumat® Green Coco N

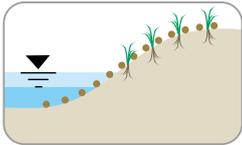


Figure 1:
Supporting vegetation
on trenches/brooks

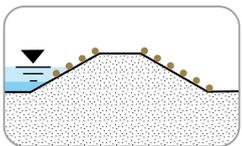


Figure 2:
Coir nets on dykes

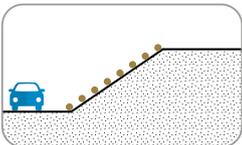


Figure 3:
Controlled water run-off
in infrastructure projects

1. Vegetating trench/brook slopes

Secumat® Green Coco N facilitates vegetation in water transition zones. Temporary designs for natural embankments using coir nets can support initial vegetation, particularly in flowing and stationary bodies of water. The established plants protect and secure the slope against erosion. (Fig. 1)

2. Vegetating dykes

Certain constructions, such as dykes which are attacked by wave action during the greening phase, can be secured against surface erosion with Secumat® Green Coco N. In this case, the coir net acts as a preventative retention to counter retrograde erosion as it moderates the erosive precipitation, thus supporting a uniformly dense layer of turf. (Fig. 2)

3. Securing and vegetating infrastructure slopes

Coir nets quickly establish a natural appearance on slopes on infrastructure construction projects. Seepage of precipitation into the upper soil is encouraged and soil slippage due to erosion averted. Secumat® Green Coco N thus creates areas of biological diversity in urban environments. Habitats for microorganisms quickly form in the net structure and thus support rapid establishment of diversified flora and fauna. By storing moisture and reducing erosion, the microclimate is improved. (Fig. 3)

Benefits of using Secumat® Green Coco N

Secumat® Green Coco N is a 100% biodegradable, areal erosion control product which is easy to install. A soil cover is not necessary.

A uniformly high quality and service life is ensured due to the continuous mechanical production method. The naturally high levels of lignin encourage the coir fibre to break down slowly. The high tensile strength of the fibres gives Secumat® Green Coco N a high structural strength and the net thus protects against erosion for long periods.

The special structure of Secumat® Green Coco nets net reduces surface run-off. The individual threads of the web slow down precipitation water and flowing bodies of water thus protecting the soil surface from erosion. The coir net also supports the growth of young plants.



2 Figure 4: Secumat® Green PinW 30



Figure 5: Installing the coir net with wooden fixings



Figure 6: Secumat® Green Coco N 400 20x30



Figure 7: Secumat® Green Coco N 900 10x15

Benefits of Secumat® Green Coco N

- Secumat® Green Coco N is particularly cost-effective as it requires minimal maintenance and does not generate any disposal costs.
- It is particularly quick and easy to install and does not have to be covered.
- The coir net can be used in many different applications with slopes gradients of > 35°.
- It offers the ideal biodegradable solution for cases where the development of vegetation requires more than 12 months until it is fully established.
- Secumat® Green Coco N can be safely used in a wide range of applications.

Secumat® Green Coco N variants

Die Secumat® Green Coco N products are available in the following weights per unit area:

Product	Property	Value
Secumat® Green Coco N 400 20x30	Weight per unit area	400 g/m ²
	Mesh size (Warp x Weft)	20 mm x 30 mm
	Roll dimensions (L x W)	2 m x 50 m
Secumat® Green Coco N 700 15x20	Weight per unit area	700 g/m ²
	Mesh size (Warp x Weft)	15 mm x 20 mm
	Roll dimensions (L x W)	2 m x 50 m
Secumat® Green Coco N 900 10x15	Weight per unit area	900 g/m ²
	Mesh size (Warp x Weft)	10 mm x 15 mm
	Roll dimensions (L x W)	2 m x 50 m

Secumat® Green Coco N is preferably secured using Secumat® Green PinW 30. (Fig. 4)



Figure 8: Coir nets in trenches and brooks



Figure 9: Coir nets on a slope

Approvals for the Naue Group



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