

Secumat® Green Coco R

 Naue

The biodegradable georoll



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Building on sustainable ground.

Secumat® Green Coco R is a sustainable, temporary erosion control solution of a georoll. It comprises a securely knotted netting tube made from mechanically twisted coir twins which is filled with untreated coir fibres.

The Secumat® Green Coco R 30 georolls are always used as finished components where bank fascines or reed rolls cannot cope with the requirements, for example, when securing the foot of a slope or for temporary interventions in the event of transportation of debris and regulating running water.

Typical applications for Secumat® Green Coco R

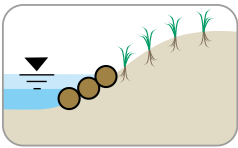


Figure 1:
Controlled water flow in infrastructure projects

1. Securing trench/brook slopes

Secumat® Green Coco R provides erosion control in the water transition zone. The coir roll offers natural support for slopes, particularly in flowing or still water bodies. It can provide rapid repair of scouring, undercutting, or riparian vegetation. Secumat® Green Coco R georolls can be installed in several layers on top of each other or perpendicular to the direction of flow on a layer of brushwood arranged with its ends extending vertical into the flow. (Fig. 1)

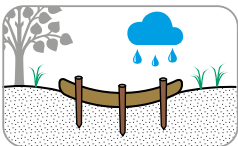


Figure 2:
Coir rolls as vegetation support in troughs

2. Trough vegetation

The coir rolls slow down surface water from precipitation and allow it to percolate slowly into the soil. At the same time, they encourage deposition of entrained debris. In this type of application, Secumat® Green Coco R georolls are arranged one behind the other. (Fig. 2)

3. Vegetating slopes

Coir rolls quickly establish a natural appearance on slopes on infrastructure construction projects. Precipitation is infiltrated into the soil close to the surface and soil slides are averted, particularly when there is a greater build-up of mud due to erosion. Secumat® Green Coco R also creates areas of biological diversity in urban environments. This creates habitats for microorganisms such as insects which helps improve the climate. We recommend this product installed with a flat natural fibre product such as Secumat® Green Coco M/N. (Fig.3)

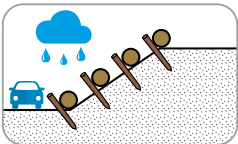


Figure 3:
Supporting vegetation on infrastructure

Benefits of using Secumat® Green Coco R 30

Secumat® Green Coco R is a 100% biodegradable erosion control product supplied as rolls. The georolls can be installed at any time and in just a few steps. There is no need for cost-intensive deconstruction, particularly where stream and river courses vary.

Due to its compact design and the high lignin content of coir fibres, Secumat® Green Coco R degrades slowly and therefore has a service life of up to 60 months. The coir rolls control erosion phenomena for long periods until an equilibrium between plant cover and deposition has been established.

The georolls start working as a sediment trap as soon as they are installed. They therefore provide quick and secure erosion control, for example, in flowing water bodies.



2 Figure 4: Secumat® Green Coco R 30



Figure 5: Flexible georoll for curved installation



Figure 6: Georolls stacked at the edge of the bank with wooden stakes



Figure 7: Bundled Secumat® Green Coco R 30

Benefits of Secumat® Green Coco R 30

- Secumat® Green Coco R 30 coir rolls are particularly cost-effective as they require minimal maintenance and do not generate any disposal costs.
- They allow water to drain through while retaining soil particles at the same time. Extremely fine suspended particles are therefore retained and filtered in the georoll so that water turbidity and silting of the trench/brook bed is avoided.

Secumat® Green Coco R 30 packaging

Secumat® Green Coco R 30 coir rolls are supplied bundled:

Product	Property	Value
Secumat® Green Coco R 30	Weight	25.5 kg
	Dimension (D x L)	0.3 m x 3 m
	Mesh size (knotted Warp x Weft)	50 mm x 50 mm
	Density	125 kg/m ³

Secumat® Green Coco R 30 should be fixed in place using standard wooden stakes provided for this purpose. Further information is available in our installation instructions for georolls.



Figure 8: Georolls in a trench



Figure 9: Georolls parallel to the slope

