

Secumat® Green 3D Meshes

 Naue

The biodegradable erosion control mat



naue.com

Building on sustainable ground.

Secumat® Green 60G5 is a sustainable, temporary, erosion control solution. It is an extruded three-dimensional erosion control mat consisting of a biodegradable 3D mesh. The artificial root structure provides optimum erosion control in the developing years by stabilising the soil and roots.

The Secumat® Green 60G5 erosion control product reduces follow-up costs and protects soil and plant structures by being filled with soil until the vegetation fully establishes itself. It is made from a new type of raw material that is bio-based and completely biodegradable.

Typical application examples for Secumat® Green 60G5

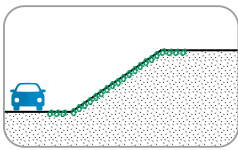


Figure 1:
Greening aid
for flat slopes

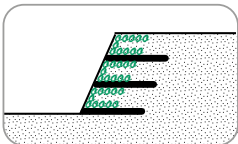


Figure 2:
Erosion-resistant
facing system

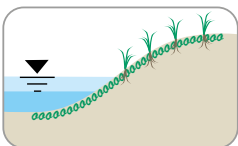


Figure 3:
Secumat® Green 60G5
in still water

1. Greening aid in infrastructure

Secumat® Green 60G5 is used to secure slopes with low erosion risk (up to approx. 40° incline) on infrastructure structures. It is suitable wherever vegetation needs to be supported for a period of up to ten years. The established vegetation protects and secures the slope against erosion. Habitats for microorganisms, such as insects, are created and contribute to an improved microclimate (Fig. 1).

2. Vegetating, protecting and securing facing systems

Secumat® Green 60G5 is used in facing systems. The Secumat® Green 3D mesh products installed at the front provide trickle protection and facilitate vegetation to enable rapid visual integration of the facing surface into the landscape. This is the case, for example, when facing systems with an angle of up to 90° or stepped facing systems require temporary protection against soil erosion, to ensure stability even during phases of poor vegetation or if vegetation fails for up to 10 years (Fig. 2).

3. Protected vegetation in the water exchange zone

When used on embankments, the stronger and thicker 3D mesh of Secumat® Green 60G5 is particularly effective in stabilising coarser soils. The temporary root stabilisation of natural embankments with Secumat® Green 3D mesh products can be reliably ensured, especially in small streams with low flow velocities (Fig. 3).

Benefits of using of Secumat® Green 3D Mesh

Secumat® Green 3D Mesh is a 100% biodegradable, flat erosion control product that is easy to install. It must be fully covered.

Easy handling and low weight enable particularly fast and cost-effective installation. Installation is possible without the use of special tools or specific expertise. The random mesh products are installed with joints and overlaps as standard. On slopes, the mats can alternatively be installed directly edge to edge without cutting. The system offers the advantage that dismantling is not required.



Figure 4: Secumat® Green PinW 30



Figure 5: Secumat® Green 60G5



Figure 6: Secumat® Green 3D Mesh on a riverbank (inland side)



Figure 7: Secumat® Green 3D Mesh on an inland sea (water side)

Advantages of Secumat® Green 3D Mesh

- Reliable performance – even under challenging conditions
- Suitable for slopes, water applications, Naue m³ system use, and trickle protection
- Temporary erosion control – even during weak vegetation phases or in case of drought-induced vegetation failure
- High stability combined with flexibility – adapts perfectly to the ground
- Secumat® Green 3D Mesh is the ideal biodegradable solution when vegetation requires more than five growing seasons to fully establish

Packaging of Secumat® Green 60G5

Secumat® Green 3D Mesh is supplied in rolls:

Product	Specification	Value
Secumat® Green 60G5	Weight	600g/m ²
	Product height	12mm

We recommend securing Secumat® Green 3D Mesh using Secumat® Green PinW 30 (Fig. 4).



Figure 8: Secumat® Green 3D Mesh on a stream bank



Figure 9: Installation of Secumat® Green 3D Mesh

