

# Secumat® Anchor

 Naue

The permanent earth anchor system



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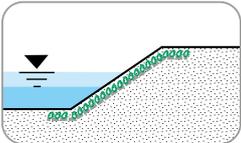
Building on sustainable ground.

**Secumat® Anchor 100 and Secumat® Anchor 150** are earth anchor systems for fixing areal Secumat® products, specifically Secumat® product combinations of 3D Mesh and Geogrid.

They provide secure retention on challenging gradients. When combined with our areal erosion control products, they are particularly suitable for stabilising embankments and slopes at risk of erosion due to instability or the absence of vegetation.

The Secumat® Anchor provide a means to transmit a tensile force to a load bearing formation within the soil.

## Typical Secumat® Anchor applications



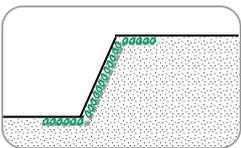
**Figure 1:**  
Permanent erosion control by bodies of water

### 1. Securing trench/brook banks

Secumat® Anchors provide permanent protection for the banks around bodies of water when used as fixings for 3D meshes with geogrids and nonwoven filter materials. (Fig. 1)

### 2. Erosion control on technical structures

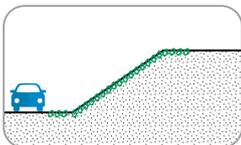
On steep-sided structures, the earth anchor systems secure the Naue erosion control mats against wind uplift and fix them to the steep surfaces. (Fig. 2)



**Figure 2:**  
Fixing on steep slope surfaces

### 3. Slopes on infrastructure

When using reinforced 3D mesh products in infrastructure projects, the Secumat® Anchor 100 and Secumat® Anchor 150 create a secure connection between the system and the subsoil. (Fig. 3)

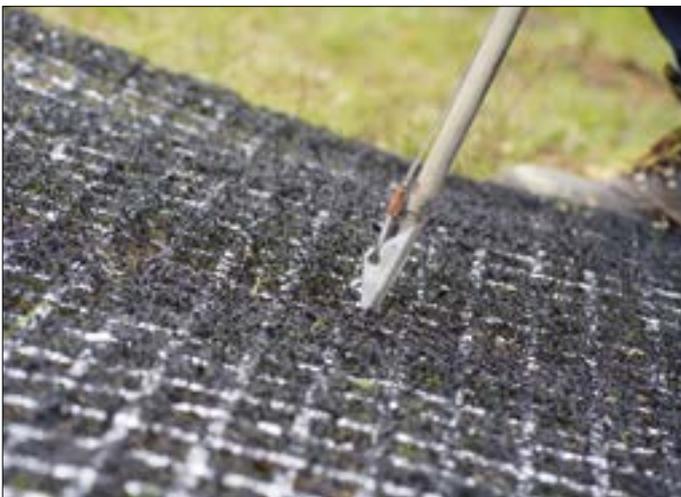


**Figure 3:**  
Fixing the infrastructure

## Benefits of using Secumat® Anchor fixings

The earth anchor system comprises a set of four individual components. It locks in place using the toggle dowel principle in which the foot of the anchor is locked and tightened using the anchor wire. The load plate is then fixed in place by the wedge grip using the anchor wire. The Secumat® Anchor effectively forms a cone of resistance in the soil and supports loads up to the load carrying capacity of the soil. The retaining forces are effective immediately.

System installation requires special tools and is completed in just a few steps.



**2** **Figure 4:** Inserting the earth anchor system



**Figure 5:** Loadlocking and tensioning the earth anchor



Figure 6: Secumat® Anchor 100



Figure 7: Secumat® Anchor 150

## Benefits of Secumat® Anchor 100 and Secumat® Anchor 150

- Earth anchor systems are suitable for a wide range of soil types and slope gradients. They supply immediate quantifiable loads and provide retention over a wide range of design requirements, even under particularly challenging conditions.
- Secumat® Anchor 100 and Secumat® Anchor 150 have a very long service life: They have exceptionally high corrosion resistance and are designed to meet or exceed the minimum service life of the cover material.

## Secumat® Anchor packaging

Secumat® Anchors are delivered as per the table below, boxed or bagged:

Product	Property	Value
Secumat® Anchor 100	Dimension (W x L x H)	55 x 35 x 20 cm
	Weight	14 kg/box
	Quantity	100 sets/box
Secumat® Anchor 150	Dimension (W x L x H)	55 x 35 x 20 cm
	Weight	13 kg/box
	Quantity	30 sets/box

The earth anchors must be installed using specific accessories and tools and in accordance with the manufacturer's installation instructions. These are available to purchase from Naue. (Fig. 4 and 5)



Figure 8: Secumat® 401 20/20 Q1 with Secumat® Anchor 100



Figure 9: Grown through erosion control system

Approvals for the Naue Group



In partnership with



Secumat® is a registered trademark of Naue GmbH & Co. KG in various countries.

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