

Bentofix® Green

 Naue

The natural seal from the roll



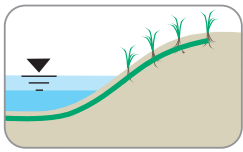
naue.com

Building on sustainable ground.

The **Naue Bentofix® Green** product - a clay liner - acts as a water barrier and is a completely ecological solution that is biodegradable in its polymer components. The compostable carrier and top layer materials degrade over time. What remains is the sealing bentonite layer. In the still rare cases where the use of plastics is banned in certain regions, such as some nature reserves, there is no alternative but to use thick clay sealing layers. However, the installation of clay layers several decimetres thick is very resource-intensive due to the machine-intensive extraction, transport and installation of the material with the associated noise and pollutant emissions.

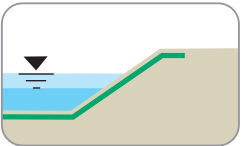
Bentofix® Green is available on a project-specific basis for innovative and ecological applications. The appropriate product components are selected in close consultation with the project partners.

Typical applications of Bentofix® Green



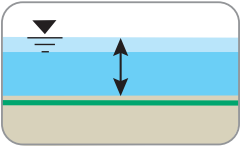
Embankment sealing

Long-term bank sealing of ponds, dams, basins or watercourses with Bentofix® Green without leaving any plastic in the environment.



Trench sealing

Sealing of trenches and ditches to prevent unwanted water ingress into the subsoil.



Colmation mat

Initial sealing of the bed and banks of watercourses. Over time, colmation areas form on the bed of watercourses, slowing or even preventing seepage. Naue Bentofix® Green is the ideal ecological solution for accelerating colmation and especially for the initial sealing effect.

Benefits of Bentofix® Green

- Versatile use as a waterproofing, colmation and protection layer
- Settlement-resistant mineral waterproofing
- 100% natural ingredients
- No release of synthetic substances into the environment during installation, operation and eventual dismantling
- Resistant to UV radiation
- Greater robustness and installation safety compared to conventional clay liners made from multi-layered compacted earth materials
- Increased internal friction angle due to full-surface needling, resulting in direction-independent shear force transmission during installation
- Long-term shear force transmission due to project-specific sealing material
- Project-specific sealing effect due to mixtures of natural sands, silts, clays and bentonite
- Immediate sealing effect after installation due to e.g. highly swellable sodium bentonite
- Simple, fast and cost-effective installation of up to 5m wide panels

Bentofix® Green - a natural alternative for ecological construction projects

Naue Bentofix® Green is an ideal sealing element for all natural sealing measures on ponds, streams, ditches, dams, rivers and banks. Bentofix® Green can be used in sensitive areas such as nature reserves, as all components and ingredients are environmentally friendly.



Strong bond withstands installation stresses

Full-surface needling ensures a strong bond between the three layers - top layer, mineral filler component and carrier layer. The thin and highly effective Bentofix® Green geosynthetic clay liner is thus securely protected against displacement of the sealing layer and damage. It is quick and easy to install, even over large areas.

Fast and strong swelling

Fast and strong swelling - just as much as you need: Depending on the type of product, Bentofix® Green can allow small amounts of water to pass through or provide a sealing effect comparable to clay seals up to 100cm thick. On contact with water, the bentonite powder used in Bentofix® Green swells and forms a homogeneous, gel-like sealing layer. The outer high performance, biodegradable textile layers protect the sealing core and encapsulate it during installation and the initial swelling phase to prevent erosion. Once the cover and carrier layers have been removed, the sealing core retains its sealing function.

Naue GreenLine

Naue is green. We have been thinking and acting green for over 50 years. We have always considered the environment in the development, production and use of our products. Now we are taking the next logical step with Naue GreenLine. A biodegradable product line.



SUSTAINABLE

Reduced transport emissions and improved CO₂ balance.



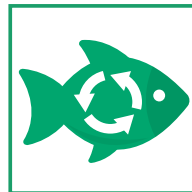
BIODEGRADABLE

Certified biodegradability in industrial and domestic composting as well as in the environment under suitable conditions. Certificates depending on the type of raw material used.



RENEWABLE RAW MATERIALS

Use of exclusively organic, natural and renewable raw materials.



METABOLISABLE

Processing of the organic nonwoven material by soil organisms, microorganisms and fungi.



MINERAL FILLERS

Bentonite, silts, clays and sands: from nature for nature.

Certificates for the biodegradability of the nonwoven components

SEEDLING Logo

confirms the conformity of the product with Euronorm EN 13432, „Requirements for the recovery of packaging by composting and biodegradation“.



TÜV Austria

The official certificates from TÜV Austria, a neutral and competent certifier, confirm our efforts in the field of sustainability. This is guaranteed by the following certificates:



OK compost INDUSTRIAL guarantees biodegradability in an industrial composting plant.



OK compost HOME guarantees complete biodegradability in garden compost.



OK bio-degradable SOIL guarantees complete degradation in natural soils.



OK bio-degradable WATER guarantees biodegradation in a natural freshwater environment.



OK bio-degradable MARINE guarantees biodegradability in a natural seawater environment.

