

## **TECMAT® protects slopes from erosion for successful revegetation**



**Erosion control mat with three-dimensional structure:**

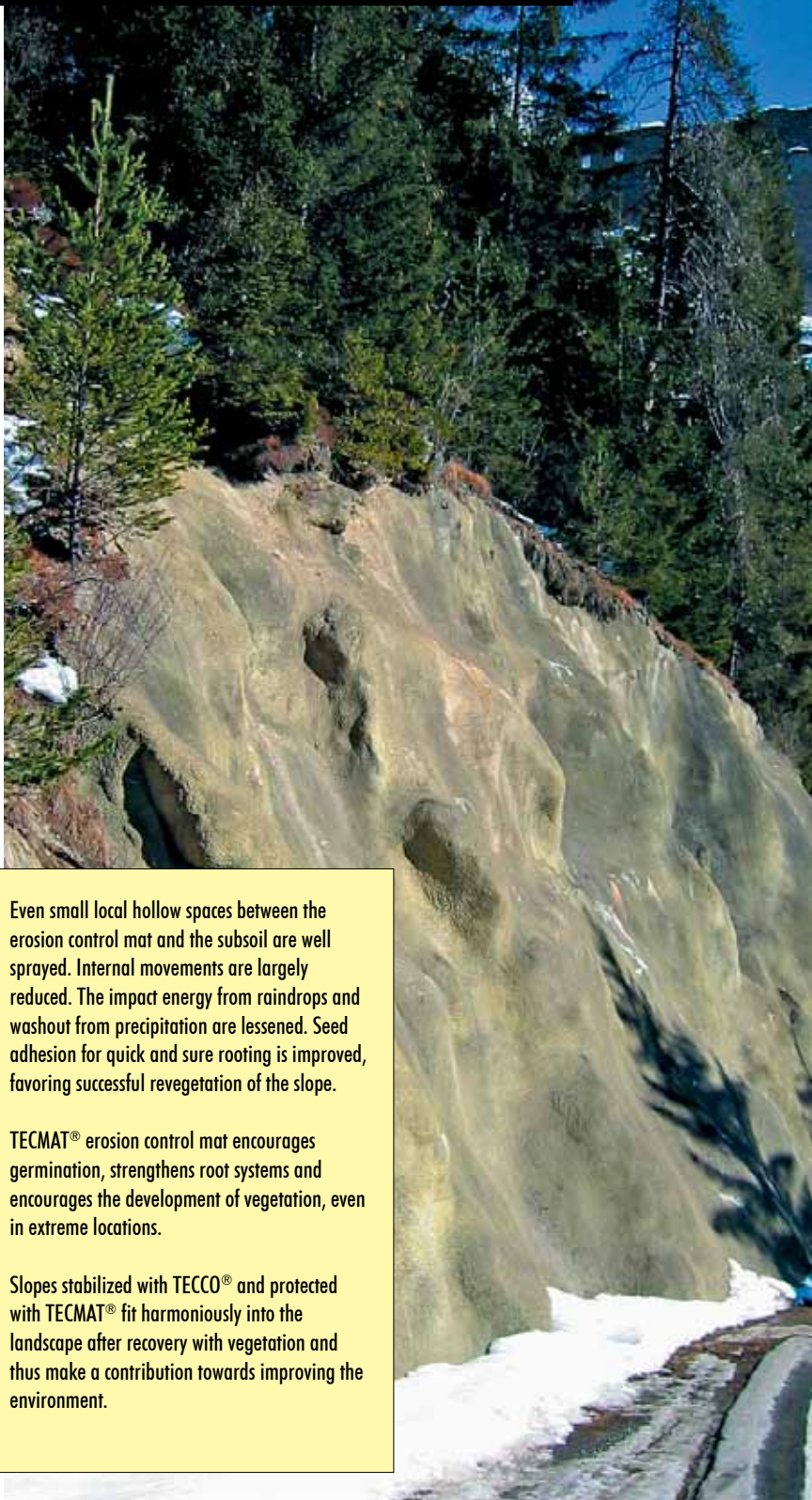
- improved erosion control
- reduces seed loss through washout
- promotes plant growth
- supports the upper layer of soil



## Well rooted, natural vegetation is the best erosion control and is an economical long-term solution that helps save resources:

Instead of a rigid concrete cover or massive retaining wall, you have decided on a flexible surface stabilization with TECCO®, the high-tensile steel wire mesh. The TECCO® mesh is anchored below the sliding surface layer with soil or rock nails. In this way the steel wire mesh is pretensioned over claw plates to the slope surface and prevents breakout of earth and rock masses. The TECCO® mesh, with its three-dimensional rhomboidal meshes, is thus very well suited for natural revegetation.

- But how can we support germination and rooting under negative influences such as wind, rain or washout when seeding on steep slopes?
- How can we time sowing to local conditions after stabilizing the slope and curtail erosion between the installation and seeding?



### **TECMAT® erosion control mat is the answer:**

TECMAT® erosion control mat, with its irregular loop structure, made from environmentally compatible polypropylene, is specially adapted for utilization with the TECCO® slope stabilization system.

The flexible, three-dimensional erosion control mat is installed together with the TECCO® mesh and serves as an underlay. The TECCO® mesh is anchored through the erosion control mat under the sliding surface layer with soil or rock nails. In this way the matting is pressed to the profile of the slope. The irregular, open three-dimensional structure is very flexible and therefore fitting closely. It has been demonstrated that the seeds can easily be sprayed through.

Even small local hollow spaces between the erosion control mat and the subsoil are well sprayed. Internal movements are largely reduced. The impact energy from raindrops and washout from precipitation are lessened. Seed adhesion for quick and sure rooting is improved, favoring successful revegetation of the slope.

TECMAT® erosion control mat encourages germination, strengthens root systems and encourages the development of vegetation, even in extreme locations.

Slopes stabilized with TECCO® and protected with TECMAT® fit harmoniously into the landscape after recovery with vegetation and thus make a contribution towards improving the environment.



**Prevents erosion:  
Open, irregular three-dimensional structure encourages strong plant growth**

**Reasons for using TECMAT®, the erosion control mat:**

**The mat**

- made of environmentally compatible polypropylene
- tested suitability for hydro and dry seeding
- khaki grey coloration adapts to the environment
- other colors possible for projects over 10'000 m<sup>2</sup>
- UV stability during the time while vegetation is developing

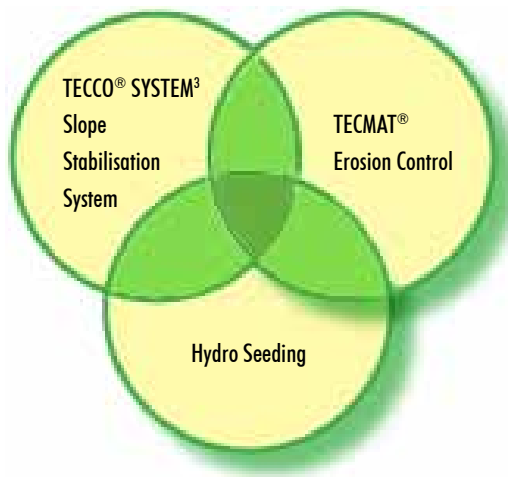
**Irregular, three-dimensional structure**

- flexible, fits closely: erosion protection favors strong plant growth
- open structure: seeds are sprayed through it
- no opportunity for local hollow spaces: reduces internal movements and stabilizes the upper layer of soil
- curtails impact energy from raindrops; reduces seed washout
- slower runoff of surface water: improved erosion protection



**User friendly**

- areal weight only 600 g/m<sup>2</sup>.
- roll measurement 40 m x 2 m
- easily cut
- TECMAT® and TECCO® are rolled out over the leveled slope in the direction of fall line. Drilling takes place through the mesh and the mat.
- System pretensioning of the TECCO® mesh means that TECMAT® is pressed optimally onto the subsoil
- Adjacent rows of the mat should be overlapped 5 to 10 cm. The mat is also fitted to the slope profile with soil nails.
- Sowing and hydro-seeding are carried out in close cooperation and planning with local revegetation specialists.



Before



After installation



After seeding



**Geobrugg, a reliable partner.**



Our engineers and partners analyze the situation together with you and then, working together with local engineering firms, present their solutions. Painstaking planning is not the only thing you can expect from us. However, since we have our own production plants on four continents, we can offer not only short delivery times but also the best possible customer service right on your doorstep. To ensure your project runs smoothly, we deliver pre-assembled and clearly labeled system components right to the construction site. Here, we can also provide technical support if required – from installation right through to final acceptance of the structure.

#### **Product liability**

Rockfall, landslips, debris flow, shallow landslides and avalanches are natural events and therefore cannot be calculated. For this reason, it is impossible to determine or guarantee absolute safety for persons and property using scientific methods. This means that, to provide the desired level of protection, protective systems must be monitored and serviced regularly and appropriately. In addition, events that exceed the system's calculated absorption capacity may cause damage. The use of non-original parts as well as severe corrosion, such as might be caused by environmental pollution, can reduce the level of protection provided.



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