



**Environmentally-friendly banks,  
Lake Lauchhammer**

Location: Lauchhammer/  
Schwarzheide (Germany)  
Contractor: NSG Freienhufen  
Date: July 2007  
Product type: Enkamat A20  
Quantity: 2,300m<sup>2</sup>



Above: Eroded slope before installation of Enkamat A20



At a reservoir between Lauchhammer Ost and Schwarzheide, the bank on the southern side was suffering erosion. Due to the mainly sandy soil and the southern location, the bank was particularly vulnerable to erosion from rain and wind.

The bank has a gradient of 1:1.5 and is approximately 12m long. The pumps used in the reservoir mean the water levels can fluctuate considerably. The bank therefore was very vulnerable at the water line.

Enkamat A20 was used to protect this area. This erosion-protection mat is filled with stone chippings and bound with a bitumen mixture. Enkamat A20 has been successfully used in hydraulic engineering for decades. The mats are 5m wide and 20m long.

The bank was levelled, stabilized and sown before the mats were laid, working from the bottom of the bank upwards. Each strip ended in a channel so that excess drainage water could not cause any erosion behind the mats. The mats were fixed in place using pins. The first greenery appeared on the mats after just a couple of weeks and within a year, Enkamat A20 was completely covered and no longer visible.

The information set forth in this case study reflects the best knowledge at the time of publication. The case study is subject to change pursuant to new developments and findings. The same reservation applies to the properties of the products described. No liability is undertaken for results obtained by usage of the products and information.



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