

Bank protection for supply canal Voedingskanaal Nederweert, NL

Enkamat[®] A20

Supply canals are used for the discharge and supply of water between two waterways, so water levels can be controlled with the help of pumping stations. Supply canals have to deal with high volumes of sometimes turbulent water, so their banks need to be erosion proof.



The supply canal in Nederweert (NL) receives water from the Zuid-Willemsvaart and flows into the Noordervaart. To meet the demand for water downstream, modernization of the water courses was essential. Measures taken by project owner Rijkswaterstaat included raising and improving the supply canal's banks.

To provide sustainable and maintenance free protection for the canal's erosion-prone banks, Enkamat A20 was selected. Enkamat A20 is a three-dimensional open polyamide mat containing a mineral filter of chippings bound with bitumen, and with 40 to 50% voids.



Situation before installation of Enkammat A20



Preparation of the embankments



Installation of Enkammat A20



Three months after installation of Enkammat A20

The mat delivers immediate protection as soon as it is installed. And because of its open three-dimensional structure, vegetation easily takes root, finds its way through the mat and further enhances the protection of the bank in a natural way. The results show green and permanently protected banks.

Environmentally friendly protection

Enkammat A20 meets category 1 of the Dutch Building Materials Standard (Bouwstoffenbesluit) for the environmental protection of soil and surface waters - rating the product as most environmentally friendly.

Location: Nederweert, Netherlands
Project owner: Rijkswaterstaat
Product type: Enkammat A20