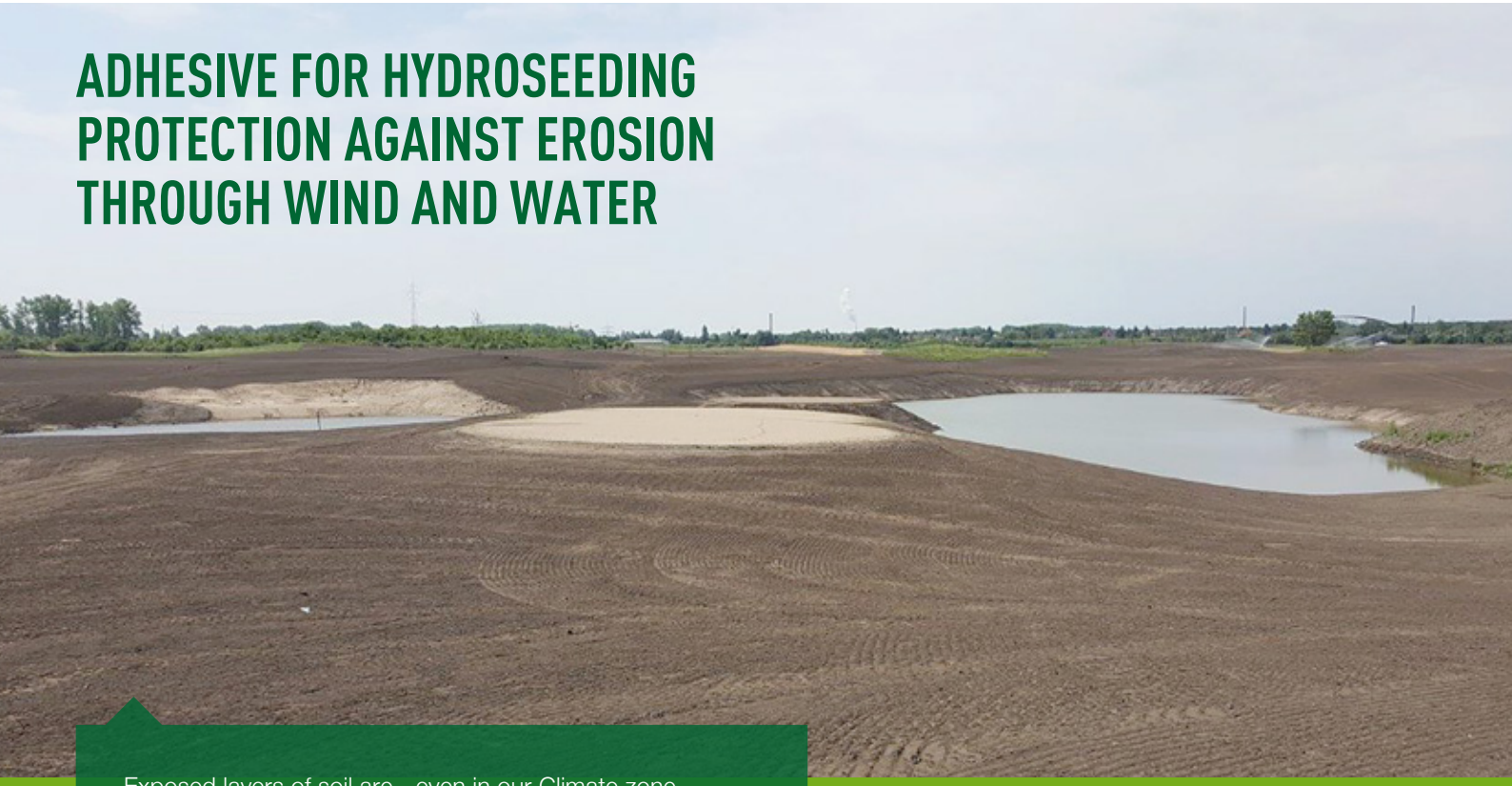
AQUENCE OC SC 823-21 (TERRA-CONTROL®)

WÖBKING
ÜBER 100 JAHRE • SEIT 1912

ADHESIVE FOR HYDROSEEDING PROTECTION AGAINST EROSION THROUGH WIND AND WATER



Exposed layers of soil are - even in our Climate zone - exposed to constant erosion by wind and water. Fertile layers of humus are eroded, Seed does not find a foothold and young Seedlings cannot contribute to the strengthening of the subsoil due to its inadequate root systems. Surfaces of slopes, dumps and embankments can slip and must be repaired afterwards with often excessive expenditure which is time consuming.

Economical solutions for this problem play a major role, especially for landscaped areas, which are to be greened to stabilise after completion of the earthworks. The problem becomes particularly clear in road, track and waterway construction as well as golf courses and sports turf.

Wöbking GmbH

Rheinstraße 36
49090 Osnabrück/Hafen

Phone +49 (0)541 / 62867
Fax +49 (0)541 / 682460

info@woebking.com
www.woebking.com

AQUENCE OC SC 823-21

THE BREATHABLE MEMBRANE FOR EFFECTIVE SEED AND SOIL PROTECTION

YOUR ADVANTAGES

A "liquid crust" for surface attachment that prevents the soil from being removed and washed out

Forms in the upper centimeters of the ground a three-dimensional structure and fixes the surface sustainably

Prevents soil silting up

Ideal for dust binding on heaps and landfills

Fixes the seeds and thus significantly increases the efficiency of greening - germination and plant growth are promoted

Rain and oxygen permeability of the soil are maintained

Stores water in the soil and protects the soil from rapid drying out

EFFECTS*

- 2-5 days earlier germination (e.g. on golf grasses with Aquence OC SC 823-21 - 35g/m²)
- more than 20% higher germination rate of grasses as well as higher degree of coverage
- Water retention (e.g. 30% higher in the vascular test) with Aquence OC SC 823-21 - 25g/m²)
- Soil losses due to heavy precipitation can be considerably reduced
  - with terrain inclination 1:3 around 70-80% (soil type clay)
  - with terrain inclination 1:5 around 60% (soil type clay) with Aquence OC SC 823-21 - 35g/m²
- Safety against wind-induced ground losses up to wind speeds from 140km/h

  Wind tunnel measurements
  - on sand: Aquence OC SC 823-21 - 45g/m²
  - on silt: Aquence OC SC 823-21 - 10g/m²

APPLICATION RATES

The table below gives guide values for the application rate of Auence OC SC 823-21 in relation to the substrate quality in g/m² (=ml/m²). The efficiency, and thus the protection against erosion by wind and water, depends on the type of soil, as well as on the application quantity and penetration depth. For a sufficient penetration depth and optimal results an existing ground moisture is necessary. In order to ensure the formation of the water-insoluble crust, it is necessary to dry off after application. Aquence OC SC 823-21 should therefore be used in drier weather conditions. Aquence OC SC 823 is diluted with water before use and applied as a 1 to 10% application solution. The wide range of applications and requirements make project-related, individual mixtures necessary.

AREAS OF APPLICATION

- Gardening and landscaping
- Hydroseeding (hydroseeding)
- Sports and leisure facilities, golf courses, ski slopes etc.
- Sandy soils, embankments, construction pits
- Agricultural and forestry land
- Stockpiles (coal, ore, garbage)
- Roof greenings

*** Results of the following institutes**

Landwirtschaftliche Untersuchungs- & Forschungsanstalt (LUFA), Speyer
Guelph Turfgrass Institute, University of Guelph, Ontario (Kanada)
Hydraulics & Erosion Control Laboratory, Texas Department of Transportation (USA)

		Angle of slope			
Soil characteristic	**Examples**	**up to 15°**	**up to 30°**	**up to 45°**	**more then 45°***
rough	gravel, weathered rock	10-15g	15-25g	15-35g	20-45g
coarse	gravel, sand	10-20g	15-25g	20-40g	25-50g
fine	Loam, clay, silt	15-25g	20-35g	25-45g	30-55g
Roof greening*		10-100g	50-200g	150-300g	min. 250g
additional quantity in areas with high rainfall		plus 10g	plus 10g	plus 15g	plus 15g
additional quantity for extension of longer germination times		plus 15g	plus 15g	plus 20g	plus 20g
		(application rate per m²)			

*additional mechanical fixing may be required for these inclination conditions