biochar®

WATER RETENTION OF NATURAL ORIGIN

N° Homologation AMM 6150003
Product certified under the name
Hydrochar WB1

Approved for use in organic agriculture in conformity with the regulation of (CE) N° 834/2007

The first range of certified, 100% organic and natural products for improving soil water retention

Increasing demand for sustainable water management and ecological farming creates a new challenges in agriculture. Industry is looking for products that will allow to enchance plant growth with minimising the water usage and overall impact to the environment.

Increasing the water storage capacity of soils and growing media is well known method for better delivering the substrates to root system of plant and improving its absorbtion of water and nutritients. This feature can be achieved through the use of dedicated, hydro-retaining products. However, most of the hydro-retaining solutions available on the market are synthetic and artificial products composed with copolymers of acrylate and acrylamide.

HYDROCHAR® WB1 is 100% organic, bio-derived product for water retention. Designed to answer the demand for natural and reliable solutions for improving the soil, it is increasing the capacity of holding water and nutrients. Its ability to rise the quantity of water available for the plant greatly contributes to environment protection and global reduction of the greenhouse gases.

HYDROCHAR® guaranteed composition:	
Dry matter min.	80%
Vegetal coal min.	80%
Organic carbon min.	64%
Capacity of water retention (v/v) min.	85%
Granulometry	0.125 - 4 mm

Packaging:

Supplied in bulk form or pellet:

- Buckets : 0.5 up to 2 liters
- Bags : 5 liters
- Big bags : 1 up to 1,5 m3

	Application	Dosing*	Application method	Time of the application
Direct soil application	Trees planting or transplants of plants	**1,5% m/m** i.e. 15 kg for 1 m^3 of soil	Uniform and homogenous mixture applied into the soil, to the planting hole.	Plantation and transplantation
	Plant division, fruit, vegetable, floral, ornamental species of plants	**1 up to 4,5% m/m** i.e. 100 up to 450 g. for 1 linear m.	Placement in the planting rows, 10 cm. width applied with 10 cm. depth	Before the division or seeding
	Grass seeding	**1 up to 5% m/m** i.e. 500 à 2500 g per m^2 of soil	Mixed with the top 5 cm. of the soil	Before the seeding
Mixing with growing media	Plant division, planting of various crops	**1 up to 5% m/m** i.e. 5 up to 25 g per liter of media	Application in uniform mixture with the growing media substrate.	Before seeding, division or planting
Mixing with organic additive	Soil preparation	**1,5 up to 8 t/ha/year** i.e. 40 t/ha of mixture with 20% (m/m) Hydrochar®WB1	Application to the soil amendment or incorporating into the soil.	At the moment of soil preparation
	Soil upgrading	**0,5 up to 4 t/ha/year** i.e. 20 t/ha of mixture with 20% (m/m) Hydrochar®WB1	Application to the soil amendment or incorporating into the soil.	At the moment of soil preparation

(*) based on dry soil, density 1 g/cm3