

# GEL

GRO GREEN

BLACK MAGIC



### **GROGREEN GEL Black Magic**

is a formulation to improve soil conditions for optimal plant growth. Regular applications of GROGREEN GEL Black Magic will improve soil aeration, water holding capacity and soil drainage. In particular alkaline and saline soils will benefit.



# HOW GROGREEN GEL BLACK MAGIC WORKS

GEL formulation with the following active components:

## **QPS 45™**

QPS 45™ is a unique compound with similar action to humic acid. However, this compound is soluble over a wider pH range and is compatible with soil Calcium. Compared to humic acid, an improved action will be employed in alkaline and saline soils.

## **HPLC-Sugars**

Increasing bacterial life and complex essential micronutrients.

## **Calcium**

Removes sodium from the soil complex and increases aeration and water drainage.

## **Wetting agent**

Improves re-wetting of very dry and hard soils.

## **Water holding component**

Improves water holding capacity of the soil.

# WHAT ARE THE BENEFITS OF GROGREEN GEL BLACK MAGIC

- **Better aeration**
- **Better drainage**
- **Improved water holding capacity**
- **Improved micronutrient availability**

## **Resulting in:**

- Improved overall plant growth
- Increased root vitality
- Improved nutrient uptake
- Increased chlorophyll synthesis
- Improved seed germination
- Increased yields

# HOW TO USE GEL BLACK MAGIC



## Specifications

	W/W	W/V
Nitrogen (N) total, soluble in water:	8,10%	12,20%
Ammonium Nitrogen (N-NH <sub>4</sub> ), soluble in water	0,5%	0,80%
Nitric Nitrogen (N-NO <sub>3</sub> ), soluble in water:	7,60%	11,40%
Calcium Oxide (CaO), soluble in water:	13,70%	20,60%
Magnesium Oxide (MgO), soluble in water:	0,26%	0,310%
Boron (B), soluble in water:	0,02%	0,03%
Copper (Cu), soluble in water:	0,092%	0,138%
Iron (Fe), EDTA chelated soluble in water:	0,230%	0,34%
Manganese (Mn), soluble in water:	0,13%	0,20%
Molybdenum (Mo), soluble in water:	0,0019%	0,0029%
Zinc, (Zn), soluble in water:	0,07%	0,10%
QPS 45™:	3,50%	5,25%
HPLC sugars, soluble in water	1,35%	2,03%
Density	1,5 kg/l	

## Application rates

### Field

General application rate of 3 – 8 kg/ha.

Fertilizer rate and timing of fertigation depends significantly on the crop, climate and fertigation technique.

### Foliar

General application of 1 – 1,5 kg/ha/application

Depending on crop and crop stage, dissolve in 200 – 600 liter of water to ensure adequate foliage coverage. For crops with a very big canopy (e.g. citrus or banana), higher spray volumes are recommended. Higher dosages, although tolerated by most crops, usually do not give better results. More frequent applications of the recommended dosage is a better practice.

Never spray during strong sunshine or periods of high evapo-transpiration to avoid leaf burning and scorching. To be used only where there is a recognized need and do not exceed the appropriate dose rate. Never combine GROGREEN GEL with other foliar fertilizers.

When combining with other agro-chemicals, a small scale test is recommended to check the compatibility.

# HOW TO USE GEL BLACK MAGIC

## Specific foliar applications

Crop	Quantity	Application timing	
Tomato and pepper	2-3 kg/ha	3 applications:	- 4-6 leaf stage - fruit set - fruit enlargement
Potato	2-4 kg/ha	3 applications:	- 2 weeks after tuber initiation - 5 weeks after tuber initiation - 2-3 weeks before harvest
Fruits	1-2 kg/ha	3 applications:	- pre-flowering - cell division - fruit enlargement
Soybeans	2-4 kg/ha	2 applications:	- 5 nodes stage - beginning of reproductive stage
Grapes	2-3 kg/ha	3 applications:	- before bloom - fruit set - berry closure
Corn	2-4 kg/ha	2 application:	- 4-6 leaves unfolded - beginning of reproductive stage
Olive	2-4 kg/ha	3 applications:	- leaf and shoot development - inflorescence - fruit development
Cereals	2-4 kg/ha	2 applications:	- end of tillering - heading stage
Rice	2-3 kg/ha	3 applications:	- tillering - stem elongation - heading
Cotton	2-3 kg/ha	3 applications:	- leaf development - first square - boll development
Pistachio	2-3 kg/ha	3 applications:	- bud burst - flowering - nut set
Melon	2-4 kg/ha	3 applications:	- first bloom - 2-3 weeks later - 5-6 weeks later
Oilseed rapes	2-4 kg/ha	3 applications:	- bud development - pod development - seed development
Sugarbeet	2-4 kg/ha	3 applications:	- 4-6 leaf stage - 6-8 leaf stage - before closure of rows

GROGREEN GEL Black Magic is dosed in single 1,5 kg bottles, packed together (12 x 1,5 kg) in a cardboard box.



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