

EXLGel™

A K-based super absorbent polymer, acting as a soil conditioner and a water reservoir.



Can absorb water up to 300 times moderate pressure conditions.



Bio-degrading period: 1 – 5 years depending on environmental conditions and soil types.



Reduces leaching of irrigation water, nutrients and fertilizers.



Reduces plant stress at the time of planting, especially during times of drought or limited water supply.



Material is compatible and mixable with substrates, soils, microbes, humic acids and a broad variety of fertilizers.



WITHOUT EXLGELTM

Water losses due to percolation and evaporation.

Inefficient use of nutrients due to leaching.



WITH EXLGEL™ Water and nutrients remain

available in the root zone.

Can absorb water up to 300 times its own weight and retain it under



FIELDS OR APPLICATION:

- Forestry.
- Agriculture.
- Commercial horticulture.
- Landscaping.
- Reforestation.
- Sod and seedling of grass.
- Soil rehabilitation.
- Nurseries and production plants (growers).
- Plant transportation and storage.
- Inner-city ornamentals and barriers.

EXLGel[™] performs best within soils with low water holding capacity (e.g., sandy, sandy loam, loamy sand).

EXLGel[™] is known to increase soil moisture retention capabilities by producing small water reservoirs until the plant roots access it.

EXLGel[™] will assist as a fertilizer and soil conditioner for long term preservation of water for trees and various crops during transplanting and growth seasons, providing a steady delivery of moisture and micro nutrients.



CHARACTERS	
Physical state	
Colour	
Particle size	
рН	
Water retention	
Active ingredient	Potas
Minor elements	Iron, Boron, Mangc
Major elements	
and the second	



RESUL	TS
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Powder

White

0.2mm – 2mm

7.58 – 7.7

1g <= 125ml

sium polyacrylate polymer

anese, Copper, Zinc, Nitrogen, Calcium

20% Potassium

RECOMMENDED RATES OF APPLICATION

AGRICULTURE

DIRECTIONS FOR USE: Product may be banded at seeding or broadcast and tilled in before seeding.

HORTICULTURE

DIRECTIONS FOR USE: Mix half-rate product throughout planting hole and amend backfill with remaining half. Irrigate immediately after planting until saturation is reached.

APPLICATION RATES						
In furrow at seeding		2-10 kg/ha				
Incorporated Band at seeding		1.25-2.5 kg/100 sqm				
TREES		BOXED TREES				
Diam (cm)	Height (m) Gram	Gram	Height in (cm)	Gram		
2.5	1	50	60	180		
5.0	2-3	80	80	250		
7.5	3-4	160	100	350		
10	4-4.5	200	120	450		
12.5	4.5-5	300				
15	5-6	450		•CAT		
17.5	6-6.5	550		PLANTING		
20.0	6.5-7	700	S	OLUTIONS		
CONTAINER PLANTS			PLANTING MEDIUM			
Litres	Gram	PL	ANTING BEDS	Gram		
41	0	10sqm/25mm depth		500		
82	0	10sqm/75mm depth		1500		
12	25	10sqm/150mm depth		3000		
20	30					
40	50	HORTICLTURE				
80	120	INCORPORATE INTO		APPLICATION RANGE		
100	150	100 sqm		2 kg		
200	200	-	1 ha	up to 100kg		
		BULK SOIL BLENDING				
EXILE OTM WATER RETAINER		C	Cubic metre	1-2 kg		
		mix thoroughly into media				
		ROOT DIP				
		1	litre water	10 gram		
		Mix	Mix 10 gram per 1 liter of water for pasty solution. Dip roots in solution 220			

PREPARATION AND APPLICATION OF SLURRY





Water containing dissolved salts (like lime in borehole water) should be treated with a surfactant before mixing with the product.



PREPARATION AND APPLICATION OF GRANULES



Soil should be dry to prevent product from forming clods when mixing with the substrate.







COST BENEFIT OF EXLGELTM:

INFLUENCE OF EXLGEL[™] TREATMENT:



- After 40 days without irrigation, the sandy soil contained 1litre of water; whereas, the soil treated with EXLGel[™] contained 1litre of water after 80 days.
- The soil moisture potential is kept for a longer period of time (twice as long) at a higher level, resulting in less drought stress for the plants. Therefore the irrigation frequency can be reduced by up to 50 %.



SURFACE WATER RUNOFF



Water loss by surface runoff at a slope of 20°; precipitation 30mm/h for 20 minutes

REDUCTON OF IRRIGATION FREQUENCY



SOIL EROSION

Water loss by surface runoff at a slope of 20°; precipitation 30mm/h for 20 minutes

-50% irration

with EXLGel™



STOCKOSQRB



DISCLAIMER:

This information is used with the permission of Evonik **Do not use solutions with high salt content to prepare the product** (High salt concentrations prevents 100% gel formation, and so decreases the product's function)

> CAN BE USED IN CONJUNCTION WITH SUPPOSITREE™ OR PLANT 'N GO™.

Please contact the manufacturer/distributor for assistance in product preparation and/or application and prior to adding additional fertilizers.