

# HydroForce Recharge

Highly Concentrated Residual Soil Surfactant which overcomes water repellency, improves water penetration and helps prevent localised dry spot in turf.

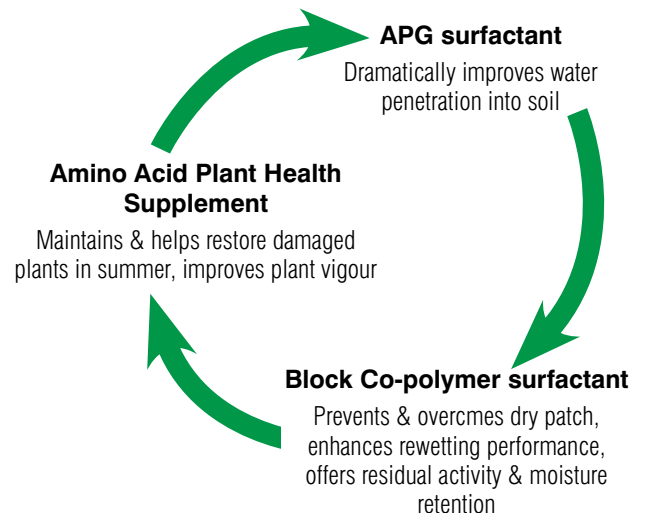
Formulated in Australia



## Product Overview

HydroForce Recharge is a premium soil surfactant blend, specifically designed to prevent and overcome hydrophobic soil situations and improve water management processes within the turf and plant growing environment.

HydroForce Recharge's key performance characteristics are due to its unique combination of powerful, highest quality surfactant technologies fulfilling rapid soil wetting, extended residual and reliable re-wetting and moisture retention performance. HydroForce Recharge also has the extra benefit of plant health improvement via the addition of an Amino Acid supplement.



## Key Features

- > Premium formulation, specifically developed for tough growing conditions.
- > A unique blend of two high quality, powerful surfactants, fulfilling specific roles in water penetration, soil wetting and re-wetting.
- > High concentration of surfactant. Maximises molecule output and performance.
- > Non-burn formulation.
- > Contains an amino acid package within the formulation, allowing for improved plant response in tough growing conditions.
- > Manufactured and developed in Australia for the harshest of climatic conditions.
- > HydroForce Recharge is available in 20L, 200L and 1,000L pack sizes for convenience and ease-of-use in every situation.



## HydroForce Recharge Performance

Research has proven that HydroForce Recharge has exceptional rapid initial wetting qualities. Quick movement of water into the profile allows hydration, recovery and optimized plant performance.

Replicated Water Droplet Penetration assessments on an extremely hydrophobic sand has demonstrated that HydroForce Recharge provides faster movement of water into the soil than competitive products. Testing conducted by G-Censeo Research (Independent research organisation).



Treatment & Concentration	Replicate (WDPT* seconds)					Average
	1	2	3	4	5	
HydroForce Recharge 4000ppm	instant	instant	instant	instant	instant	0.00
Competitor 1 4000ppm	2	4	2	2	5	3.00
Competitor 2 4000ppm	6	4.5	4	3	2	3.90
Untreated Control	141	46	166	241	245	167.8

\*WDPT – Water droplet penetration time: Seconds required to penetrate a highly hydrophobic sand.

### HydroForce Recharge – Amino Acid Plant Health Supplement

#### TYPICAL NUTRIENT ANALYSIS

Element	Rate of Output HydroForce Recharge (grams)		Element	Rate of Output HydroForce Recharge (grams)	
	20L/ha	50L/ha		20L/ha	50L/ha
HR Recharge Rate	20L/ha	50L/ha	HR Recharge Rate	20L/ha	50L/ha
Nitrogen (N)	40.26	100.65	Sulphur (S)	10.34	25.85
Phosphorus (P)	12.24	30.6	Boron (B)	0.017	0.0425
Potassium (K)	25.12	62.8	Manganese (Mn)	0.033	0.0825
Calcium (Ca)	1.65	4.125	Zinc (Zn)	0.086	0.215
Magnesium (Mg)	3.53	8.825	Silicon (Si)	0.102	0.255

#### AMINO ACID CONCENTRATIONS

Amino Acid	Output @ 20L/ha (g)	Amino Acid	Output @ 20L/ha (g)	Amino Acid	Output @ 20L/ha (g)
Aspartate	9.2	Cystine	3.1	Lysine	6.5
Threonine	5.7	Valine	7.9	Histidine	4.5
Serine	6.5	Methionine	2.5	Tryptophan	0.3
Glutamic Acid	21.7	Isoleucine	11.4	Arginine	8.2
Glycine	9.9	Tyrosine	2.9	Proline	13.7
Alanine	13.2	Phenylalanine	4.8		

## HydroForce Recharge – Application Details

Situation	Rate per 100m <sup>2</sup>	Rate per hectare	Comments
Preventative application of Localised Dry Spot	200 – 500mL	20 – 50L	Apply in no less than 800L/ha of water. Irrigation is not critical but is recommended to ensure product effectiveness. Repeat treatments at the lower use rate (20L/ha) every 4 weeks. At the higher use rate (50L/ha) apply every 2-3 months.
Curative application For Localised Dry Spot occurrence	400 – 500mL	40 – 50L	Apply in no less than 1000L/ha of water. Irrigation is not critical but is recommended to ensure rapid hydration of the profile. Repeat applications fortnightly and continue as required until recovery occurs. The addition of L-Form Amino Acids are to assist in plant recovery and response.
Ornamental Garden Beds & Landscaped Areas	15mL per 10L of water		Sufficient to drench area of up to 5m <sup>2</sup> . Water in well following application. Apply as necessary.
Horticulture (General Use)	150mL per 100L of water		Apply around base of plants or tree and water in well following application. Apply as necessary.