

The logo features three curved, overlapping bands in shades of green and yellow on the left side, resembling a stylized leaf or water droplet.

# HydroForce

## Soil Surfactant

### Solutions Guide

- > Comprehensive range of soil surfactant chemistry, providing options for all turf management situations & soil types
- > Concentrated surfactant formulations maximizing active ingredient output & performance
- > Developed & Researched for Australian conditions



# Soil Surfactant Solutions Guide

## HydroForce™ Ultra

HydroForce Ultra is a newly discovered, innovative modified Block Co-Polymer surfactant technology, altered to enhance adsorption to hydrophobic materials and to radically increase the wettability and responsiveness. The product has been extensively trialled by the US University system (Purdue & Penn State) showing significant benefits. By managing soil water more efficiently, HydroForce Ultra maximises turfgrass quality, health and plant performance. This unique formulation will provide you with consistent control of soil moisture.

- > A new standard for stress management in turfgrass. Strengthens the plant's natural ability to withstand stress and disease pressure
- > New levels of wetting performance and moisture retention
- > Provides both curative and preventative performance

**Pack size: 10L; 200L; 1000L**

Rate per 100m <sup>2</sup>	Rate per hectare
62.5-125mL in 8L of water	6.25-12.5L in 800L of water

## HydroForce™ Calwet

Hydro-Force CalWet is a granular residual surfactant formulation specifically developed for use in fine turf situations. Hydro-Force CalWet is a dual-purpose product and unique in that the granular carrier itself is Gypsum, which is ideal for reducing sodium accumulation in turf soils. The surfactant is a block co-polymer designed to provide preventative and curative control of localised dry spot.

- > Dual purpose product
- > Low burn, gypsum based formulation that is ideal for use in renovation activities or via topical maintenance applications
- > Relieves and prevents problems associated with hydrophobic soils for an extended period
- > Reduces sodium accumulation in soils.

**Pack size: 25kg; 1000kg**

Rate per 100m <sup>2</sup>	Rate per hectare
Soil Surfactant: 3-10kg Sodium Displacement: 5-10kg	Soil Surfactant: 300-1000kg Sodium Displacement: 500-1000kg

## HydroForce™ DewPRO

HydroForce DewPro is a concentrated, non-ionic organomodified siloxane based surfactant that works via significantly reducing leaf blade-level surface tension, thereby inhibiting excess moisture build-up and the formation of dew and frost.

- > Greatly limits dew or frost accumulation, improving sportsturf growing conditions
- > Highly efficacious
- > Lasts up to 10 days
- > Lower use rates

**Pack size: 5L; 200L**

Rate per 100m <sup>2</sup>	Rate per hectare
<u>Prevention:</u> 20-30mL in 10L of water	<u>Prevention:</u> 2-3L in 1000L of water
<u>Control:</u> 40-50mL in 10L of water	<u>Control:</u> 4-5L in 1000L of water

## HydroForce™ Evolve

HydroForce Evolve is a true soil penetrant, consisting of an anionic soil-amending additive, which modifies surface tension of the hygroscopic (bound) water in the soil profile.

- > Improves water infiltration and penetration in all soil types, but particularly effective on loams and clays
- > Enhances soil aeration
- > Ideal for use in the wet periods to keep the rootzone from becoming over saturated
- > Eliminates wet/dry spots
- > Highly tank mix flexible
- > Reduces compaction
- > Low use rates, allowing for economical treatment over larger areas

**Pack size: 1L; 20L**

Rate per 100m <sup>2</sup>	Rate per hectare
7.5-10mL	750mL-1L



Formulated in Australia



## HydroForce™ Extend

HydroForce Extend is a long-term surfactant that gives you guaranteed safe protection against water repellency problems and promotes turf uniformity for up to 90 days. It maximises surfactant molecule output, providing consistent management of water repellency.

- > Improves water movement and combats water repellency issues
- > Safe for use on all turf varieties
- > Economical to use on large turf areas like fairways and sports fields
- > Provides both curative and preventative activity
- > Strong residual activity providing a base surfactant for any turf management program
- > Highly concentrated, 100% surfactant formulation

**Pack size: 20L; 200L; 1000L**

Rate per 100m <sup>2</sup>	Rate per hectare
<u>Single Application:</u> 200-500mL in 8L of water	<u>Single Application:</u> 20-50L in 800L of water
<u>Split Application:</u> 200mL in 8L of water Repeat in 30 to 45 days	<u>Split Application:</u> 20L in 800L of water Repeat in 30 to 45 days

## HydroForce™ Recharge

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.

- > Quickly treats and eliminates localized dry spots
- > Reduces turf wilt and extends moisture retention
- > Promotes rapid recovery of stressed turf
- > Safe to use even under hot, stressful conditions
- > Biostimulant in formulation to further enhance plant response

**Pack size: 20L; 200L; 1000L**

Rate per 100m <sup>2</sup>	Rate per hectare
200-500mL in a minimum of 8L of water Repeat treatments at the lower use rate (200mL) every 4 weeks	20-50L in a minimum of 800L of water Repeat treatments at the lower use rate (20L/ha) every 4 weeks

## HydroForce™ Rapid

HydroForce Rapid is a versatile surfactant formulation which can offer multiple functions in improving water availability in turf management. At lower rates of application, HydroForce Rapid can act as concentrated, high quality thatch and soil penetrant, designed to quickly and efficiently move water away from the foliage and thatch and into the growing medium. When used at higher rates of application, HydroForce Rapid offers a medium term residual soil surfactant option, providing up to 6-8 weeks performance,

- > Greatly increases water penetration and irrigation efficiency and enhances residual performance
- > Significantly reduces run-off on sloped areas
- > Increases fertiliser efficiency
- > Versatile in its application. Has multiple uses in the turf management program
- > Overcomes hydrophobicity
- > Moves fertiliser and chemicals inputs into the soil more uniformly to maximise performance
- > Better overall turf performance and playability

**Pack size: 20L; 200L; 1000L**

Rate per 100m <sup>2</sup>	Rate per hectare
<u>Injection:</u> 20-50mL <u>Boom Spray:</u> 50-500mL <u>Fertiliser &amp; Pesticide Placement:</u> 20-50mL <u>Injection:</u> 20-50mL	<u>Injection:</u> 2-5L <u>Boom Spray:</u> 5-50L <u>Fertiliser &amp; Pesticide Placement:</u> 2-5L <u>Injection:</u> 2-5L

## HydroForce™ Inject

HydroForce Inject is a high quality thatch and soil penetrant surfactant blend, specifically designed to quickly and efficiently move water away from the foliage and thatch and into the growing medium. HydroForce Inject is economical and ideal for injection into irrigation systems or application via boom sprayer for large area usage.

- > Greatly increases water penetration and irrigation efficiency
- > Significantly reduces run-off on sloped areas.
- > Improved turf performance

**Pack size: 10L; 200L; 1000L**

Rate per 100m <sup>2</sup>	Rate per hectare
20-50mL in 4L of water	2-5L in 400L of water

**indigo**  
SPECIALTY PRODUCTS



# Soil Surfactant Solutions Guide

## HydroForce™ Product Selection Guide by Situation

HydroForce Product	Golf Courses & Bowling Clubs					Sportsfields & Stadiums	Racetracks	Soil Type	
	Greens & Tees	Fairways	Course wide injection	Roughs	Stressed Areas & Chronic LDS			Sand Profiles	Finer Textured Soils
Calwet	✓	✓			✓	✓		✓	✓
DewPRO	✓					✓	✓		
Evolve	✓	✓		✓		✓	✓	✓	✓
Extend	✓	✓		✓	✓	✓	✓	✓	✓
Rapid		✓	✓	✓		✓	✓	✓	✓
Inject		✓	✓			✓	✓	✓	✓
Recharge	✓	✓		✓	✓	✓	✓	✓	✓
Ultra	✓					✓	✓	✓	✓

## HydroForce™ Product Selection Guide by Function

Benefit	Key Function	Calwet	DewPRO	Evolve	Extend	Inject	Rapid	Recharge	Ultra
Input Efficiency Improvement	Thatch penetrant efficiency					✓	✓		
	Increases irrigation efficiency					✓	✓		
	Increases fertiliser efficiency					✓	✓		
	Increased efficiencies of plant protection products					✓	✓	✓	✓
Growing Conditions Improvement	Enhanced overseeding performance					✓			
	Preventative water repellency treatment	✓			✓		✓	✓	✓
	Moisture retention in rootzone						✓	✓	✓
	Firmer playing surfaces			✓					✓
	Long term residual control of LDS	✓			✓				
	Curative localised dry spot treatment	✓			✓		✓	✓	✓
Plant Benefits	Improves turf performance and playability		✓	✓		✓	✓	✓	✓
	Improved turf quality & health			✓		✓	✓	✓	✓
	Reduces turf wilt	✓			✓	✓	✓	✓	✓
	Promotes rapid recovery of stressed turf	✓			✓			✓	✓
	Promotes turf uniformity				✓	✓	✓	✓	✓

HydroForce™ is a trademark of Indigo Specialty Products Pty Ltd

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