

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 Australasian & Oceania markets

The logo consists of the word 'indigo' in a lowercase, sans-serif font. The 'i' and 'n' are green, 'd' is purple, 'i' is blue, 'g' is green, and 'o' is purple. To the right of the text are three curved, overlapping bands in shades of green and yellow, similar to the HydroForce logo.

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SPECIALTY PRODUCTS



Soil Surfactant Solutions Guide

HydroForce™ Advance

HydroForce Advance is a high performance soil surfactant that is the foundation of an effective rootzone management program. It's safe for all turf species, the key to HydroForce Advance performance characteristics is it's unique combination of powerful, highest quality surfactant technologies fulfilling different roles in the water management processes.

- > Prevents water repellency issues
- > Promotes turf uniformity
- > Establishes dimensional moisture retention in the rootzone
- > Flexible application rates to fit different soil types

Pack size: 10L; 20L; 200L

| Rate per 100m ² | Rate per hectare |
|--|---|
| <u>Sand based rootzones:</u> 100-300mL Apply in a minimum of 4L of water | <u>Sand based rootzones:</u> 10-30L Apply in a minimum of 400L of water |
| <u>Finer Soil types:</u> 75-300mL Apply in a minimum of 4L of water | <u>Finer Soil types:</u> 7-30L Apply in a minimum of 400L 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 ² | Rate per hectare |
|--|--|
| <u>Soil Surfactant:</u> 3-10kg <u>Sodium Displacement:</u> 5-10kg | <u>Soil Surfactant:</u> 300-1000kg <u>Sodium Displacement:</u> 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 ² | 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; 5L; 20L

| Rate per 100m ² | 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 outperforms the competition in providing more 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 ² | 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™ Rapid

HydroForce Rapid is a highly concentrated penetrant surfactant that maximizes soil moisture movement into the soil, improving irrigation efficiency, allowing you to save water and energy. HydroForce Rapid can easily be injected into your irrigation system or tank-mixed with any boom spray application.

- > Greatly increases water penetration and irrigation efficiency
- > Significantly reduces run-off on sloped areas
- > Increases fertiliser efficiency
- > Moves fertiliser and chemicals inputs into the soil more uniformly to maximise performance
- > Better turf performance and playability

Pack size: 20L; 200L; 1000L

| Rate per 100m ² | Rate per hectare |
|--|-------------------------------------|
| <u>Injection:</u> 20-50mL | <u>Injection:</u> 2-5L |
| <u>Boom Spray:</u> 50mL | <u>Boom Spray:</u> 5L |
| <u>Pesticide Placement:</u> 20-50mL | <u>Pesticide Placement:</u> 2-5L |

HydroForce™ Recovery

HydroForce Recovery is designed to provide rapid recovery from existing water management problems such as localized dry spots. It moves water deeply into problem areas, reducing water repellency and restoring the soil's ability to regain optimum moisture levels. It can also be used as a pre-treatment tool to correct problem areas before starting a regular preventative program.

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

Pack size: 10L; 20L; 200L

| Rate per 100m ² | Rate per hectare |
|--|---|
| 200-250mL in a minimum of 4L of water | 20-25L in a minimum of 400L of water |
| Reapply with 200-250mL in 4L on a weekly basis until problem is alleviated | Reapply with 20-25L in a minimum 400L on a weekly basis until problem is alleviated |

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 trialed 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 year round.

- > 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

| Rate per 100m ² | Rate per hectare |
|----------------------------|---------------------------|
| 125-190mL in 8L of water | 12.5-19L in 800L of water |

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SPECIALTY PRODUCTS



HydroForce

Soil Surfactant Solutions Guide

HydroForce™ Product Selection Guide by Situation

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

HydroForce™ Product Selection Guide by Function

| Benefit | Function | Advance | Calwet | DewPRO | Evolve | Extend | Rapid | Recovery | 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 drier 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 | ✓ | | | | | ✓ | | ✓ |

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