

# STAMINA<sup>®</sup> *EXPRESS*

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## The logical choice in penetrant surfactants

**Stamina Express** is a high quality thatch and soil penetrant surfactant blend, specifically designed to quickly and efficiently move water into the soil profile. Stamina Express is economical and ideal for injection into irrigation systems or application via boom sprayer for large area usage.

Stamina Express as well as containing a high level of penetrant surfactant technology, also possesses a residual surfactant component, allowing for excellent rewetting and prevention of dry patch formation in the initial weeks following the application.

### How Stamina Express works



Before wetting agent is applied



After application of wetting agent

Stamina Express has an excellent ability to reduce the cohesive forces of water, lowering its surface tension and shearing droplets into smaller ones, allowing it to penetrate into the soil rapidly. By doing this, losses due to evaporative forces are reduced, resulting in the maximum volume of water entering the soil. The residual surfactant component ensures excellent rewetting capability in the initial weeks following the application.

### Major benefits of STAMINA EXPRESS

- High active ingredient loading, when compared to competitive penetrants.
- Proven performance.
- The industry benchmark in water droplet penetration time performance when compared to competitive products.
- Unsurpassed rewetting capability when compared to other penetrant technologies.
- Maximises irrigation performance.
- Non burn formulation.
- Ideal for placing soil based pesticides and liquid fertilisers into the soil.
- Manufactured and developed in Australia for Australian conditions.
- Available in 20L, 200L & 1000L pack sizes.

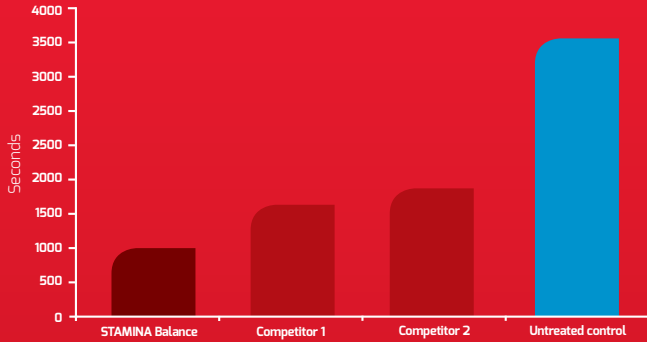
### Stamina Express at a glance

Formulation:	Blend of non ionic and anionic surfactants
Uses:	Penetrant
Rate:	2.5 – 5L/ha
Residual performance:	2-4 weeks
Potential for burn:	Non burn formulation
Pack sizes available:	10L, 200L, 1000L



# STAMINA Express performance

## Water droplet penetration time testing



Water droplet penetration test studies on a severely hydrophobic soil clearly demonstrates that Stamina Express has exceptional ability to lower the surface tension of water, allowing it to quickly move into the soil profile. When comparing it to competitive surfactants, Stamina Express was clearly the best performer (The lower the time, the better the movement into the hydrophobic soil). Tests conducted by BASF Australia.

## Water droplet penetration time testing on a severe hydrophobic sand material (Photo taken after five minutes of application)



Water only

Competitive product

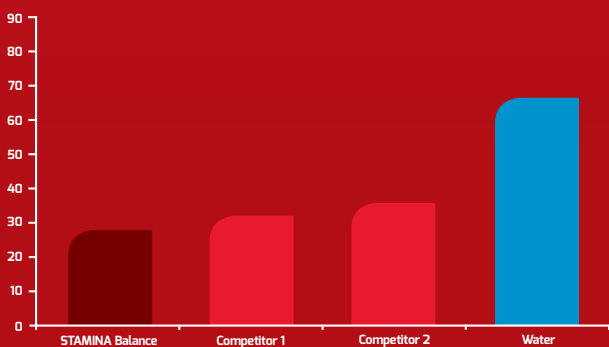
Stamina Express 2L/ha equivalent

Stamina Express 3L/ha equivalent

Stamina Express 4L/ha equivalent

Stamina Express 5L/ha equivalent

## Surface tension results - dyne/cm



30ml of each wetting agent was dissolved in 15L of water, then the samples were tested on a du Nuoy Tensiometer as a way of measuring surface tension. The lower the surface tension, the greater the surfactant has worked in reducing the cohesive forces that water possesses, and the greater the ability of the surfactant to improve water movement into the soil. Tests conducted by AAFS Laboratory (independent laboratory), Victoria. Results prove that Stamina Express provides significantly improved reductions in surface tension when compared to competitive products.

## Application rate

Situation	Rate	Rate/Ha	Comments
Injection (Fairways and Sportsfields)	20-50mL /100m <sup>2</sup>	2-5L	To ensure optimal water usage, apply Stamina® Express monthly or as necessary. The greater the frequency of application the greater the water use efficiency.
Boom Spray	50mL /100m <sup>2</sup>	5L	Apply in no less than 400L/ha of water. Irrigation is not critical but is recommended to ensure product effectiveness. Repeat treatments at the desired application frequency.
Pesticide and Fertiliser Placement	20-50mL /100m <sup>2</sup>	2-5L	To ensure optimal placement of soil targeted pesticides and fertilisers tank mix Stamina® Express. Irrigation is not critical but is recommended to ensure product effectiveness.
Domestic Gardens (Lawns & Garden Beds)	5mL/10L		Sufficient to drench area of up to 5m <sup>2</sup> . Water in well after application. Apply as necessary
Horticulture (General Use)	50mL/100L		Apply around base of plants or tree and water in well after application. Apply as necessary.

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