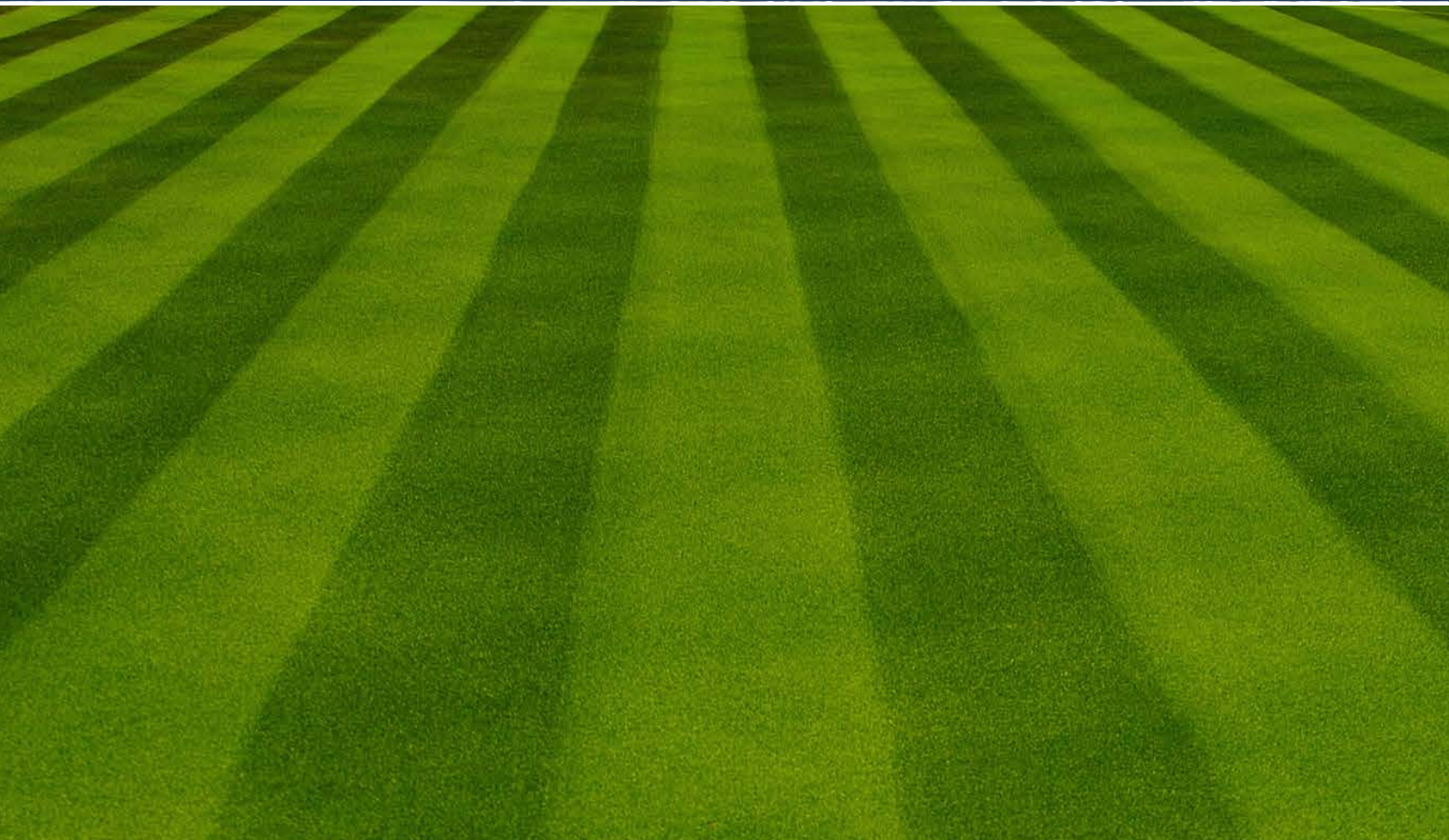


STAMINA[®] G



The long term granular

STAMINA G is an easy to spread granular formulation of **STAMINA G**, providing excellent residual wetting performance and prevention of localised Dry Spot. **STAMINA G** is specifically for use in higher cut turf situations such as sportsfields, parks, fairways, racetracks and turf farms.

The granular formulation, provides a great option of application for users who don't have boom sprayers available, in areas where boom spray application is not safe, at renovation or in the turf establishment phase when limitations of heavy vehicles movement is apparent or in new garden bed plantings.

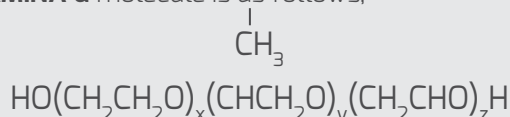
Major benefits of STAMINA G

- Proven performance, backed by Nuturf and BASF.
- Easy to use granular product.
- Excellent residual performance.
- Improves Water usage by improving water penetration and retention.
- Reduces irrigation requirements by increasing the rate and depth of water penetration.
- Non burn formulation.
- Effective in both sand and heavier soil profiles.
- Manufactured and developed in Australia for Australian conditions.

STAMINA G at a glance	
Formulation:	20% granular surfactant on a Zeolite carrier
Granule size:	1-2mm
CEC Level:	72meq/110g
Uses:	Long term prevention and control of dry patch
Rate:	125 - 250kg/ha
Residual performance:	Several months
Potential for burn:	Non burn formulation

The molecule in STAMINA G

The molecule in **STAMINA G** is a heavy molecular weighted material. It is a EO/PO block co-polymer, which is a non-ionic surfactant containing ethylene oxide and propylene oxide units. EO/PO block copolymers allow for efficient wetting because the water hating end of the chemical attaches itself to the water repellent sand by physical adsorption, providing an anchor which allows the more water soluble end to extend into the aqueous phase to draw water to the soil's surface. The chemical structure of the **STAMINA G** molecule is as follows;



The large nature of the molecule, is what gives **STAMINA G** its residual performance. Microbial decomposition takes several months, due to the complexity of its molecular make up.



KEEP OUT OF REACH OF CHILDREN
USERS ARE CAUTIONED TO TAKE REASONABLE SAFETY PRECAUTIONS
WHEN HANDLING AND APPLYING THIS PRODUCT

STAMINA[®] G

LONG-TERM GRANULAR WETTING AGENT

Stamina GR is a spreadable 20% active, non-ionic, professional-grade wetting agent on a Zeolite carrier. It alleviates problems associated with localised dry spot (LDS) from hydrophobic soils in turf & ornamental areas.

- Relieves problems with hydrophobic soils
- Reduces water requirements by increasing the rate and depth of water penetration
- Good level of plant beneficial cations (Ca, Mg, K)
- CEC level of 72meq/110g
- Extremely useful for a variety of turf and garden situations
- Only 1-2 applications necessary in the growing season

DIRECTIONS FOR USE
Stamina GR works best when applied early in the growing season prior to moisture stress. However, it can be used continually to relieve plant stress due to hydrophobic soils any time during the year.

Application Rates		
Per 100 sqm	Per hectare	Comments
125-250g	125-250kg	Sprinkler irrigation of turf is recommended to wash the particles off the plant leaves and release the active ingredient into the soil.

SAFETY DIRECTIONS
Keep out of reach of children. Users are cautioned to take reasonable safety precautions when handling and applying the product. Avoid contact with eyes and skin. For more information refer to the safety data sheet (SDS) which is available from the supplier or call 1800 000 000.

CAUTIONS OF USE
Read and use the label for any last spray damage or death whether conventional or otherwise, whether or not caused through negligence or otherwise, or otherwise, which is not caused by the application of the product. The user of the product is to be deemed to have read and understood the label and to have accepted the user's liability for any damage or death caused by the application of the product.

Additional information under the Globally Harmonized System (GHS):
GHS hazard and P-Statements:
GHS07: Corrosive
GHS09: Hazardous to the Aquatic Environment
P201+P202: Attention! Read the label carefully before use.
P273: Avoid release into the environment.
P501: Dispose of contents and container as instructed.

PREVENTION
Keep out of reach of children. Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required.

RESPONSE
If on the skin, remove particles, wash affected clothing. Shower and shower with water. If in the eyes, flush with water. Do not rub the eyes. For contact lens, use an irrigating solution to flush the lenses.

STORAGE Store in a dry place. Store in a closed container.

DISPOSAL Wetting or wetting is not possible, use is recommended. For contact lens, use an irrigating solution to flush the lenses.

NUTURF
SPECIALISTS PROVIDING SOLUTIONS

Nuturf is a division of Australian Agricultural Products Pty Ltd
ABN 61 120 305 808
2011 Ridge Boulevard
Preston NSW 2158

NET WEIGHT 20kg

STAMINA G Performance

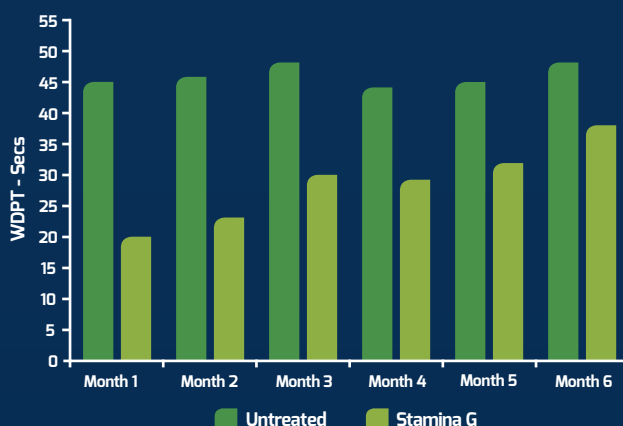
Longevity and rewetting performance

The trial was established to determine wetting agent performance on a hydrophobic soil material over an extended period of time (kept in greenhouse conditions). At each month, water droplet penetration tests (WDPT) were undertaken, with the results recorded in the table to the right. It clearly indicates that **STAMINA G** molecule had improved performance over the untreated control at all months over the 6 month period, confirming the excellent residual and rewetting capabilities of **STAMINA G**.

Environmental benefits

By using the ranking provided (US EPA guidelines) and on the basis of the results from two bioassays conducted **STAMINA G** can be considered as being a non-toxic surfactant to frogs.

Wetting longevity trial



Summary of the toxicity data on STAMINA G

	48-h tadpole bioassay (mg/L)	96-h teratogenic assay (mg/L)
LC ₅₀	9,000	7,500

LC₅₀ (lethal concentration to 50 per cent): the concentration of a chemical in water which kills 50 per cent of the organisms placed in that water for a stated time, usually 48 or 96 hours.

Concentration (mg/L)	Toxicity category
<0.1	Very highly toxic
0.1 – 1	Highly toxic
>1 – 10	Moderately toxic
>10 – 100	Slightly toxic
>100	Practically non toxic

Using STAMINA G

Situation	Rate/100m2	Rate/Ha	Comments
Preventative application of localised Dry Spot in sportsfields, fairways, parks, turf farms and amenity areas.	1.25 - 2.5kg	125 - 250kg	STAMINA G works best when applied early in the growing season prior to moisture stress. However it can be used curatively to relieve plant stress due to hydrophobic soils any time during the year.
Garden beds, planter boxes and mulches.	2.5kg	250kg	Sprinkle STAMINA G granules over the area to be treated. STAMINA G can be simply applied to the surface of an existing garden bed or can be incorporated into the garden as new beds are made. Applying before periods of rain will assist in building up reserves of soil moisture for the dryer periods.

Spreader settings	2kg/100sqm
Lesco calibration gauge	12.5
Scotts R8A	L
Central hole setting	13mm

These settings are only approximate. Application speed, age and condition of spreader can cause wide variation. Be sure to calibrate your spreader before application.

STAMINA[®] G



CONTACT YOUR LOCAL TERRITORY MANAGER OR CALL 1800 631 008.

www.nuturf.com.au