

# STAMINA<sup>®</sup> GYP-WET



## FEATURES & BENEFITS

- ▶ Stamina Cypwet is a combination product containing Stamina 90 Long Term Wetting agent on a Gypsum carrier
- ▶ Ideal product for reducing sodium accumulation whilst supplying your wetting agent needs
- ▶ Analysis: 21% Calcium

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## Stamina Gyp-Wet

The use of soil surfactants or wetting agents is a critical tool in the water management process. Water must be able to infiltrate, drain easily and hydrate the soil uniformly.

**Water Repellency - Hydrophobicity is caused by a range of hydrophobic organic materials that form non-polar coatings on soil particles.**

**When a soil particle coated with these organic materials becomes dry, the normal polar soil is changed to a non-polar surface. Water molecules will move inward toward the bulk of other polar water molecules hence creating a surface tension.**

When surfactant molecules are applied to soils with water as the carrier, the hydrophobic ends of the surfactant molecules are strongly attracted to the water molecules and align themselves so that their hydrophilic ends are toward the water

molecule and their hydrophobic ends are pushed out. By doing so this reduces the surface tension and facilitates infiltration of water from the surface into the soil profile.

**When a surfactant is applied to soil, the hydrophobic (non-polar) end of the surfactant attaches to the nonpolar water repellent site on the soil particle.**

As water moves into the soil profile, individual water molecules are attracted to the polar end of the surfactant. The polar end of the surfactant becomes an attachment site for water, allowing a water repellent soil particle to wet.

## Stamina Gyp-Wet - A unique two-in-one homogenous granule combining Stamina soil wetting agents & gypsum

### Stamina Wetting Agent

- Reduce run off for Water Saving
- Cure and avoid Soil Hydrophobicity/Dry Patch and Water Stress
- Improve Uniformity of Soil Wetting
- Deeper Water Infiltration for deeper roots and healthier plants
- Faster Gypsum Calcium penetration for more rapid sodium displacement and soil structure enhancement

### Gypsum

- Optimise Soil Structure
- Provide Essential Plant Nutrients
- Displace Built Up Sodium

