



HYDROSEEDING

ASCOGEL sets a new standard as an effective bio membrane that reduces soil erosion and water runoff immediately after hydroseeding as well as retaining moisture and eliminating dust.

- i. Small voids created inside ASCOGEL particles draw in water causing rapid swelling of the gel. When water is taken up by the plant, the expanded particles within the gel shrink and are then ready to repeat the process. Its unique and natural water retaining polymerisation holds up to 400 times its weight in water before reaching its saturation point. And, unlike synthetic absorbent polymers, ASCOGEL maintains an efficient water reservoir, even in saline conditions.
- ii. ASCOGEL provides betaines (natural anti stress molecules for plants). Betaines help plants recover from biotic and abiotic stresses incurred during and after planting. Alginic and amino acids within ASCOGEL create a colloidal zone around plant roots to hold nutrients until required by plants. This increases the localised CEC of the root zone, thereby reducing nutrient loss. Additionally, ASCOGEL provides polysaccharides (easily digestible sugars), to feed and accelerate the multiplication of beneficial symbiotic soil biota, which increase the availability of essential nutrients for assimilation by plants.
- iii. Within the production process of specific plant extracts, certain vitamins and proteins have been protected to enable L-methionine biosynthesis by plants. This plays a central role in fixing essential sulphur from the environment and overcoming enzymic inhibitors left by glyphosate type herbicide residues.
 - 100% produced from sustainably grown organic plant materials.
 - Saponins to release arid soil surfaces from hydrophobicity.
 - Betaines for improved recovery from biotic and abiotic stresses
 - Polysaccharides feed and accelerate establishment of soil and plant life.
 - Alginic acids increase nutrient retention within root zone for improved assimilation.
 - Vitamins and proteins improve plant health and increase crop quality and yield.
 - Reduces irrigation cost by at least 40%, and crop wilt / failure risk by up to 80%
 - Eliminates soil water stress during periods of drought.

ASCOGEL is easy to use in all jet/spray-based equipment as it forms into a gel that holds seeds within a stable suspension to allow a uniform coverage of the area to be hydroseeded. Ideal for any seeding project. ASCOGEL offers a Hydroseeding & dust control bio membrane which manages the distribution of seeds by humectant control, effectively maintaining seed separation within the mix, and their ultimate adhesion to the sprayed surface, while also providing bio stimulation, plant food and enough water retained to ensure successful plant establishment and dust control.

- **Add ASCOGEL at a volume ratio of 1/250 of powder to fresh water and stir to form a flowable gel.**
- **Mix plant seeds with the required amount of ASCOGEL gel to cover the area to be hydroseeded.**