



# Erosion Control

## What are the ways to prevent soil erosion on your site?

Over the past 40 years we have developed sustainable solutions to meet a variety of projects. One of the main things we get asked for is erosion control associated with heavy rainfall, mining, construction or infrastructure works.

We have multiple applications available, which work by protecting the soil until vegetation grows and stabilises it. However, choosing the right one will be dependent on your site requirements.

Soil Testing is recommended so that the mix can be designed to suit the site conditions present. This allows for the best chance for successful results to occur.

### Hydromulch

- A mix of binder, seed, woodfibre and water, which forms a protective layer on the soil to reduce soil erosion.
- Can be applied to areas ranging from flat surfaces, up to banks with gradients of 1V:1H with heavier applications.
- The proportion of wood fibre in the slurry can be altered to provide varying amounts of coverage and erosion protection requirements.
- Hydromulch can fail when there is inadequate surface preparation, poor quality soil, or an inadequate mix is used or climatic conditions present.

### Ameliorated Application

- A mix of grass seeds, fertilisers, cellulose fibre, binder, and water, with added ameliorants, which change the properties of the soil.
- The ameliorants include gypsum, lime, and compost, which help to promote long-term grass growth.
- The application forms a paste on the surface, holding seeds in place until initial strike is achieved.
- The ameliorants work their way into the soil via the 'Top-Down' approach, improving the nutrient availability, soil structure and working to release the locked nutrients within the soil.
- This methodology kick-starts the natural regeneration process and nutrient cycles that have broken down in a site soil, in order to achieve sustainable long-term germination.
- The success of your application will be dependent on the ingredients used and adequate surface preparation.



*Results of Ameliorated Application to rocky areas with limited topsoil on the Hunter Expressway*



*Ameliorated Application being applied to the Hunter Expressway (Kurri Kurri to Branxton project)*

## Bonded Fibre Matrix

- Suitable (to a degree) for erosion prone surfaces, friable surfaces and steep banks.
- Is a good method of dust and particle suppression.
- The heavy application will retain moisture for a longer period and offer a degree of erosion protection.
- Does not necessarily result in rapid germination and long-term grass growth.
- Will not encourage germination without topsoil.
- Will not prevent erosion during heavy rainfall.
- Cannot be applied to just any surface.

## APPLICATION AND GERMINATION RATES

Each one of our machines can apply our applications to areas up to 40,000sqm per day.

In addition, Hand Hose Application of up to 300m from the machine has been achieved meaning that treatment of almost all sites is possible.

Typically, 70% to 80% of germination is achieved within four to six weeks, depending on climatic conditions and rainfall.

## OUR PROMISE TO YOU

Working with some of Australia's most reputable soil laboratories (SESL), we have developed a proven methodology that delivers cost-effective, long-term solutions to your Revegetation and Erosion Control challenges.

## No shortcuts. Just long-term results.

If you would like more information on each of these applications, please see our [Learning Centre](#) on our website, or you can contact one of our friendly sales team. We are happy to chat with you and answer any questions you may have, to help you find the right solution for your site. Because you deserve sustainable grass growth without the need for re-works.



**VALLEY HYDRAMULCH  
& REVEGETATION**

TRUSTED SOLUTIONS SINCE 1981

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