

BONDED FIBRE MATRIX

This heavy application contains cellulose fibre, which retains moisture and aims to prevent soil erosion

WHAT IS BONDED FIBRE MATRIX?

Bonded Fibre Matrix can be used to stabilise steep slopes until natural vegetation can be re-established. It is an application of seed, fertiliser, wood fibre, and binder slurry sprayed onto surfaces by a specially-built high pressure pump delivery system.

FEATURES

- ✔ Bonded fibre matrix is applied using the same technique as hydromulch.
- ✔ It has a heavy application of cellulose fibre mulch as much as 6,000 kg/ha.
- ✔ The heavy application will retain moisture for a longer period and offer a degree of erosion protection.
- ✔ It is not recommended as a substitute growing medium.

BEST PRACTICE

- ✔ Bonded fibre matrix requires meshing on steep slopes (1 in 3 or steeper) to avoid flotation and wash off in heavy rainfall.
- ✔ Seed and fertiliser should be applied in a separate initial application to prevent them from perching (moving towards the top layer of the soil).
- ✔ Non-Rewettable Binders are required to maintain integrity of the mat, but these binders—to be effective in the long term—seal the surface and prevent absorption of rainfall.



Application of a Bonded Fibre Matrix. The application itself only included minimal fertilisers and seed in accordance with a standard RMS R178 specification.



Bonded fibre matrix application germination following rainfall.

MISCONCEPTIONS

Whilst Bonded Fibre Matrix is an extremely effective revegetation solution, it is important to clarify a few commonly-held misconceptions about its success rate.

- ✓ It does not necessarily result in rapid germination and long-term grass growth.
- ✓ It will not encourage germination without topsoil.
- ✓ It will not prevent erosion during heavy rainfall.
- ✓ It cannot be applied to any surface.

SUITABILITY

Bonded Fibre Matrix is suitable (to a degree) for erosion prone surfaces, friable surfaces and steep banks. It is a good method of dust and particle suppression.

GERMINATION AND GROWTH

Growth is generally similar to hydromulching, but this is dependent upon local rainfall.

RELATIVE COST

The Bonded Fibre Matrix method is more expensive than hydromulching, due to the increased volume of wood fibre and binder.

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. 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.

No shortcuts. Just long-term results.

Contact us for detailed technical support material, project records, photographs and drone footage of these and other major works completed by Valley Hydramulch & Revegetation since 1981.



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