

ARMOURING AUSTRALIA WITH EARTHLOK'S ANTI-EROSION CONCRETE MATS



In mining, construction, utilities, and government projects, protecting site infrastructure from the threat of wind, rain and water can make erosion control a real challenge. However, one Australian company is revolutionising the industry with their permanent erosion control concrete matting system.

Made in Victoria and available Australia wide, EARTHLOK® manufactures concrete mat technology designed to offer a sustainable, alternative solution to traditional methods such as rip rap. From slopes, embankments, waterways, and spillways, to landfills, site access and roadways, the company's concrete erosion control solution prevents soil loss and erosion.

The flexible mat system consists of

pyramid shaped 50Mpa concrete blocks, with each block surrounded by a 40mm spacing. The blocks are interconnected with a proprietary design 60-60kn UV stabilised geogrid mesh, which is inert to most chemicals. The pyramid shape utilises the flow of water to force the block down into the subgrade to further anchor the mat into the ground.

EARTHLOK® is customised for project specifications, strapped and rolled up like carpet, before being distributed to sites for quick installation.

EARTHLOK General Manager Sarah Woolley said that the product has been developed with sustainability in mind. "The concrete mixture in our product was awarded a 3 out of 4 green star rating and

is manufactured using reclaimed waste materials including recycled sand, water and slag. It's a propriety formula produced via a low impact, low disturbance process that has a minimal carbon footprint."

Woolley added that the concrete mat system is engineered to promote vegetation growth when required, with a biodegradable nutrition mat underlay option that helps promote vegetation growth and protect the subgrade while vegetation is being established, or a non-woven geofabric underlay for applications that don't require vegetation."

To-date, over 4000m² of Earthlok has been delivered to Whitehaven for various overflow and spillway applications. It has also been successfully utilised in mining

projects right across Australia for clients such as Rio Tinto Iron Ore, Engie, Alcoa, Talison Lithium, and Sun Metals. "In one recent drain application that measured 220m by 13m, almost 3000m² of Earthlok was installed in 1.5 days," said Woolley.

"This project was originally designed with Reno Mattress, with a 6-8 week installation time provision. The client benefited from a huge reduction in overall costs, as well as a stronger performing permanent solution."

EARTHLOK is compliant with many State Road Authority organisations, Water Authority requirements and relevant Australian design specifications. **AMR**

For more information, visit www.earthlok.com.au



FLEXIBLE CONCRETE MATTING SOLUTIONS

EARTHLOK is a revolutionary solution for erosion control in civil engineering and infrastructure projects. It delivers permanent hard armour protection to prevent soil loss and erosion from wind, rain and water, and is specifically engineered for effective use in floodway areas. Whether it's embankments, slopes, channels, waterways, spillways, boat ramps, roadways, landfills or other erosion-prone areas, our customised solutions are designed to stabilise and protect your site.

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EARTHLOK®
flexible concrete matting