

The Permanent Stabilisation of Contaminated Soils (Primer)

TERRA SYSTEM™ is a trusted name in soil stabilisation with a 30-year history of global success.

TERRA SYSTEM™ is a current member of AUSTSTAB (Australian Pavement Recycling and Stabilisation Association) and supports innovation and sustainable best practice in soil stabilisation.

TERRA-3000™, our flagship soil stabiliser is primarily used in road (unsealed, sealed and

mining haul), rail, and runway construction to achieve maximum in-situ modulus at minimum treatment depths.

TERRA-3000™ is suitable in environments where the stabilisation requirement is permanent.

TERRA-3000™ is used in dam, dyke and levee construction, to contain the flow of water and to minimise erosion.

TERRA-3000™ is used to construct stabilised soil

structures to 'cap' or 'trap and contain' soils with active or legacy contaminations.

TERRA-3000™ is a compelling solution for managing sites contaminated with Per- and Polyfluoroalkyl substances (PFAS) among other contaminants, and sites managing the storage of contaminated soils collected from primary or secondary treatment sites.

The TERRA-3000™ Advantage

PERMANENT	Treatment with TERRA-3000™ is permanent and is damage and water resistant.
CARBON NEUTRAL	During manufacture of TERRA-3000™ produces a min. 80 times less CO ₂ than Cement. During transport TERRA-3000™ produces a min. 480 times less CO ₂ than Cement. Our minimal emissions are 100% off set by our carbon sequestration activities, the purchase of carbon credits and our participation in humanitarian relief efforts.
SAFE TO USE, ENVIRONMENT SAFE, NO-RESIDUAL	TERRA-3000™ is water soluble, safe to use, environmentally friendly and leaves no residual. It is safe to use in habitat and heritage sensitive environments.
ECONOMICAL AND SCALABLE	TERRA-3000™ is economical to use (favoured by developing economies), has a simple and easily transferable treatment methodologies and requires standard road construction equipment such as graders, water carts and rollers (use of stabilisers is beneficial but optional).
BLENDING, RECYCLING, INTEGRATION	TERRA-3000™ requires the presence of silt and clay fines to work optimally. That said, TERRA-3000™ works with a myriad of blended soils, recycled pavements, or waste materials such as quarry/mine overburden, even blended fly ash. It is also suitable for use in high clay environments.
HIGHLY STABILISED	Dramatic increase in in-situ modulus (in-situ CBR) following treatment. Post treatment results (depending on depth and appropriate particle distribution) typically fall in the range EVD 80-150 NM/m ² .
HIGHLY WATER RESISTANT	The loss of capillary action and associated increase in water resistivity in candidate soils during treatment with TERRA-3000™ prevents the ingress of water. When TERRA-3000™ is used to 'cap' or 'trap and contain' contaminated soils, this loss of capillary action prevents the release of contaminants into the surrounding environment.
IMPROVE PAVEMENT DESIGN BY CONSUMING LESS	TERRA-3000™ allows you to meet or exceed pavement design outcomes at lesser depth often with lesser quality resources than required by conventional pavement design.
CIVILIAN, MINING, DEFENCE & HUMANITARIAN AID	TERRA-3000™ supports the largest range of stabilisation and sustainable development tasks. TERRA-3000™ is the perfect choice for high availability, infrastructure on demand and disaster recovery projects for humanitarian crises and military deployments.