



SPRAYS ON.
STOPS EROSION.



ABOUT

Developed by pioneering Australian soil scientists over 12+ years, the EnviroStraw range of revegetation products are based on their unique BioGrowth™ revegetation program that is proven to revive soil and establish native vegetation anywhere.

Even the most erosion-prone and depleted commercial sites can be revegetated in a self-sustaining way adopting the BioGrowth™ revegetation program which uses products that contain built-in nutrients for sustainable growth and work faster than traditional methods.

EnviroStraw products are Australian-owned and manufactured, and have been carefully developed to accommodate all land sloping variants.





INTRODUCING GEOSPRAY

AN ENVIROSTRAW PRODUCT



What is GeoSpray?

GeoSpray, an alternative to geotextile products eliminates erosion caused by water, rain or wind, using a signature spray-on application technique, GeoSpray removes the labour-intensive, time-consuming and costly aspects of laying geofabric and other TRM products while exceeding all industry specifications.

After application, GeoSpray forms a non-flammable crust that holds the substrate underneath in place, reducing the risk of contamination to nearby storm water drains and creeks. A proprietary blend of minerals, interlocking fibres and speciality binders adhere GeoSpray to the substrate, forming a tough, resilient and flexible cover. This durable cover can move with the ground below, minimising cracking.

GeoSpray Original is porous and binds safely with the substrate, giving it the following advantages:

- It is unaffected by the high winds that dislodge and tear geotextile products
- It can handle storms and rain events because water drains through it
- It can be vegetated, eliminating the need for Jute matting and other TRM technology
- It requires no maintenance

GeoSpray Extreme does not allow for water penetration, making it ideal for:

- Highly dispersive soils
- Extreme weather events
- Extreme slopes
- Clean water drains
- As a sediment dam liner

GeoSpray works well on all substrates, including:

- Compacted clay
- Sandy loam
- Rock
- Dispersive soils
- Sand

GeoSpray is applied using standard hydroseeding equipment. Unlike geotextile and other TRM solutions, it is applied in minutes, not hours. It dries quickly and can withstand moderate rain events within as little as 4 hours following application.

GeoSpray benefits



Cost effective



Quick application



Can be vegetated



No handling heavy rolls of geotextile



Not impacted by high winds



Handles severe storm events



Can be left on site after job completion



Can be applied to hydroseeded areas



Australian designed and manufactured

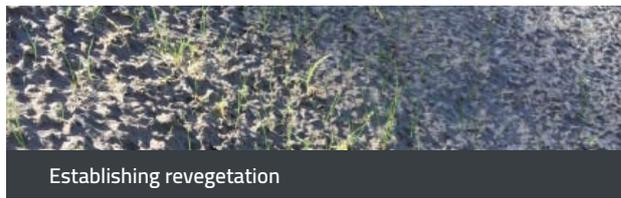
THE MANY USES OF GEOSPRAY

GeoSpray can be used to control erosion in a vast array of situations.

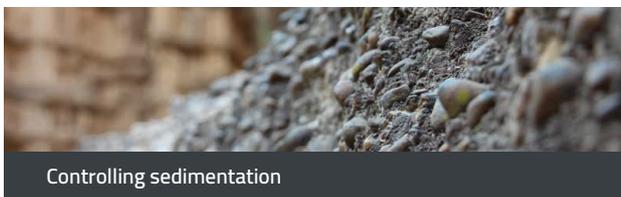
Common application include:



Stabilising road-side batters and swale drains



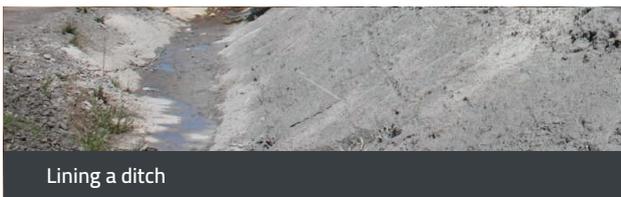
Establishing revegetation



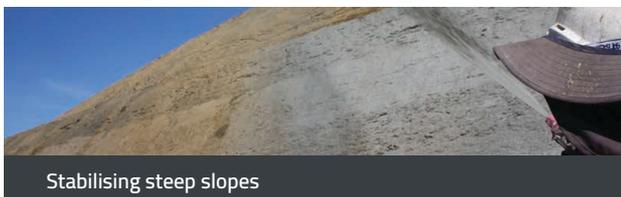
Controlling sedimentation



Covering contaminated fill



Lining a ditch



Stabilising steep slopes

Compliance assured

Geospray meets or exceeds all relevant transport and main roads specifications, including:

- MRSR2 – erosion and sediment control
- 1237P – geobinders (non-toxic material or substance sprayed on to soils to prevent erosion)
- 1345P – erosion control blanket (products reduce impact of raindrops and low-velocity flow)

INDEPENDENT TESTING

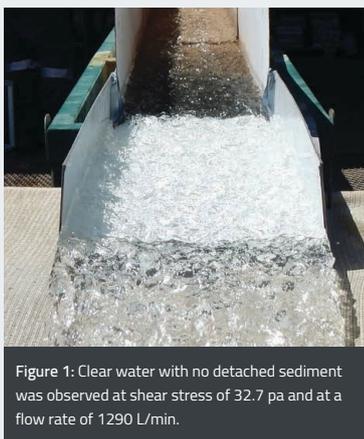


Figure 1: Clear water with no detached sediment was observed at shear stress of 32.7 pa and at a flow rate of 1290 L/min.



Figure 2: Control surface showed very high levels of suspended solids at shear stress of 15 pa and at a flow rate of 900 L/min.

Independent testing has proven that GeoSpray delivers near-perfect erosion control - the effectiveness of GeoSpray as a soil surface stabiliser under concentrated flow conditions goes beyond expectations.

Results show that the application of GeoSpray to bare soil increased the surface strength to a point that, at maximum flow rate (based on testing equipment used), no erosion to the underlying soil occurred. This means EnviroStraw has not yet discovered a fail point for Geospray.

CASE STUDY #1

Hawkesbury Road, Moggill, QLD

The Challenge

In November 2012, EnviroStraw commissioned an independent field test in Brisbane unaware that Cyclone Oswald was approaching.

GeoSpray was applied to the surface - a combination of soft sand, sandstone and rock - six weeks before the cyclone hit. Cyclone Oswald caused extensive damage to the area and severe flooding in the Brisbane region.

The Result

The area received more than 400mm of rain over a 24 hour period. The grassed areas (treated with GeoSpray) experienced a significant run-off, yet the surface held fast, did not crack or lift, and remained stabilised.

The highly bonded fibre matrix of the coating had little or no visible sign of delamination. Adhesion to the substrate was exceptionally good.

The residual porosity was sufficient to prevent build-up of pressure from the water trapped in the bank, and effective fibre-bonding prevented scouring by surface flow.



November 2012



Post-Cyclone Oswald: January 2013



Little or no sign of delamination

CASE STUDY #2

Berrimah Business Park, Northern Territory

The Challenge

EnviroStraw's task was to cost effectively prevent future erosion and wash-outs at the highway run-off drain at the Berrimah Business Park at Stuart Highway in the Northern Territory. No vegetation was present at the site.

EnviroStraw applied GeoSpray plus grassing at an application rate of 1:5:1 to prevent further erosion and washouts. The site was irrigated three times daily for 15 minutes.

The Result

The GeoSpray membrane held fast despite the heavy irrigation. The grass grew in thickly and remains plush and well-established.



Immediately after application



One month after application



Two months after application

WHO USES GEOSPRAY?

Independently tested

"Water in the GeoSpray-treated drain was clear of sediment for the duration of the test. In contrast, erosion was very evident where the drain terminated in bare soil at the near horizontal base of the track. The inherent permeability of GeoSpray was evident in the testing. Water draining through the GeoSpray coating slowed the advance of water down the drain. The wetted area could be depressed by foot pressure without damage to the coating."

Independent Analyst Druce Batstone B.Sc. (APP), B.E., PHD.

Our clients



Certified GeoSpray installers

GeoSpray can be installed by a network of certified installers throughout Australia.

GeoSpray is now available worldwide

For more information, please contact our sales team:

1300 868 669

sales@geospray.com.au

geospray.com.au

Except as permitted by the copyright law applicable to you, you may not reproduce or communicate any of the content in this material, including content from the website, without the permission of the copyright owner.

Developed in the lab, validated in the field

