

## Dust Suppression



## Road Stabilisation



## Erosion Control



## Revegetation



# About RST Solutions



**Reynolds Soil Technologies (RST Solutions)** is a multi-award winning company that specialises in providing comprehensive, environmentally friendly **mining and civil solutions** to the mining, civil construction and infrastructure, renewables and revegetation industries worldwide.

With over **30 years' experience**, industry research and development, we have the knowledge and expertise to offer our clients customised solutions for dust and fine particle management products and services.

We develop, evaluate and promote systems that deliver superior practices and techniques that generate significant results. We also develop and manufacture dust and fine particle products that are **leading edge, innovative** and **cost-effective**.

Our mission is to produce products of an environmentally sustainable nature and to achieve efficient and effective multiple-use management systems that meet the diverse needs of our customers.

Our vision is to be recognised globally as a leader in dust and fine particle management solutions across the mining, civil construction and infrastructure, renewables and revegetation industries.

We are committed to excellence in service and product, we actively encourage and pursue innovation and creativity, and we conduct our business with honesty and integrity.

Through strategic alliance with like-minded companies, RST Solutions is represented in Australia, North and South America, Africa, the Middle East, Asia and the Pacific. Our representatives are fully trained and supported by RST Solutions Australia to ensure the same level of excellence is maintained from country to country.

# What we do

Our philosophy is to provide leading edge products, application equipment, systems and support which deliver the most effective and economical solutions for solving and managing our clients dust, road stabilisation, erosion, revegetation and other related issues.



- ▶ **Dust Suppression** - Total dust management including dust suppression products and mechanical equipment, dust modelling and dust monitoring
- ▶ **Road stabilisation** - Increased strengths, reduced permeability and reduced material cost
- ▶ **Erosion control** - Soil erosion, weathering erosion and erosion deposition
- ▶ **Revegetation** - Soil binding and colloidal fixative, hydromulching and hydroseeding binder, and seed and soil locking technology
- ▶ **Other** - Sediment and water management, and miscellaneous products for the agricultural industry.

## How we do it

### 7 STEP SOLUTION

RST Solutions will:

1. **Evaluate** your problem
2. Develop a **solution**
3. **Recommend**, communicate & agree on a solution
4. Design & install mechanical **systems**
5. **Implement** the solution
6. **Monitor** the results
7. **Report**, validate & recommend further strategies



EVALUATE

SOLUTION

RECOMMEND

SYSTEMS

IMPLEMENT

MONITOR

REPORT



# Dust Suppression



**Our aim is to manage all your project's dust issues**, allowing you to carry on with day to day activities in a safe and productive manner. Our Total Dust Management solutions utilise;

- ▶ **Leading edge products, equipment & systems**
- ▶ **Effective & economical solutions**
- ▶ **Tailor made recommendations**
- ▶ **Over 30 years' experience within the mining industry**

## Total Dust Management - Pit2Port

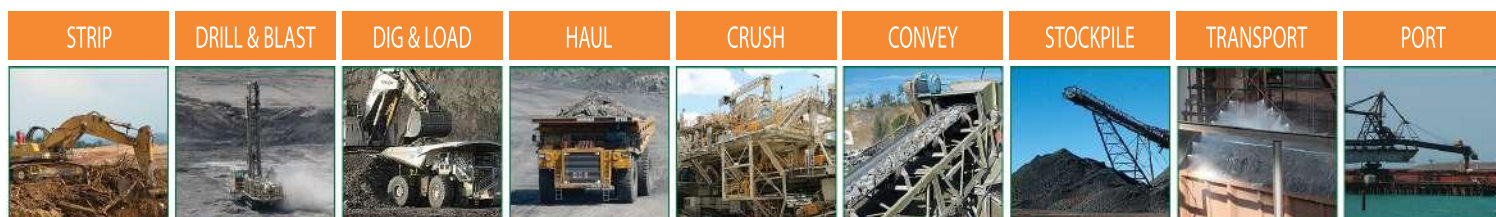
**RST Solutions manages dust and moisture during the handling of bulk materials within mining operations.**

**RST Solutions' Pit2Port program offers Total Dust Management throughout the entire materials supply chain.**

**PIT2PORT**  
**Dust & Moisture Solutions**

**The Total Dust Management program** is implemented in the following areas;

- ▶ Dig faces & excavation areas
- ▶ Haul roads
- ▶ Hardstand areas, access roads & car parks
- ▶ Large open areas including tailings dams
- ▶ Waste dumps
- ▶ Crushers, transfer points & conveyors
- ▶ Stockpiles
- ▶ Train & truck loading and transport
- ▶ Stackers & reclaimers
- ▶ Port loading to ship



# Haul Road Management System (HRMS)

**RST Solutions' Haul Road Management System (HRMS)** is a proven system combining unique dust suppression and stabilisation products with strategies, equipment modifications, training programs, monitoring and testing procedures designed to improve haul road performance.

## Benefits include:

- ▶ Greatly reduces dust levels
- ▶ Reduces water cart hours
- ▶ Reduces road maintenance
- ▶ Reduces vehicle maintenance
- ▶ Reduces rolling resistance
- ▶ Reduces water usage
- ▶ Reduces fuel usage
- ▶ Improves road condition
- ▶ Improves productivity
- ▶ Greater cost savings



## Road Stabilisation



RST Solutions' liquid soil compaction aids are designed to improve the structural integrity of road construction materials used in mining, plantation, rural & municipal roads. These compaction aids are further enhanced by Proof Engineers design, road construction recommendations and on site verification and testing.

- ▶ Reduced **deterioration**
- ▶ Reduced **maintenance requirements**
- ▶ Reduced **rolling resistance**
- ▶ Increased **CBR and elastic modulus**
- ▶ Increased **waterproofing**
- ▶ Material **dewatering**





# Erosion Control

RST Solutions' erosion control products are designed specifically for the areas they treat. RST Solutions can provide the required solution that is diluted and applied onto the treatment area. Their products bind the fine particles together forming a layer of crust that seals the treated area resulting in significantly less dust and erosion.

RST Solutions are committed to continually improving environmental performance and conducting operations with due diligence to protect and improve the environment.



# Revegetation



RST Solutions has a range of revegetation products to assist with revegetation for flat areas and sloped landscapes, for large-scale mining operations to small construction sites.

RST Solutions understands the challenges involved in repairing damaged landscapes, and are committed to providing the appropriate solution to assist their clients restore land to a healthy state.

# Innovative Approach

As part of RST Solutions solution to success, we align with relevant others to compliment and complete our programs.

- ▶ **Engineers** - RST Solutions' programs and products are independently tested and evaluated by qualified engineers. These engineers also assist in developing and designing new products and technologies.
- ▶ **Mechanical Systems** - Quality designs, development and implementation of automated mechanical systems and spray systems.
- ▶ **Universities** - Many universities, such as Newcastle University, test and evaluate RST Solutions' products.



## Leading Edge Technology



Continual research and development ensures RST Solutions' technology is leading edge and the product range reflects current industry demand. RST Solutions also acknowledges that every client and project is unique, and can tailor make solutions to meet unique criteria.

RST Solutions' commitment to research and development has lead to the creation of a unique range of dust suppression and soil stabilisation products to successfully treat all the varying dust sources and ground conditions. Independent testing is used to validate these results and achievements.

RST Solutions has developed solutions, equipment and processes to solve any problem quickly and effectively using leading edge technology.



For global support and locations visit our website

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