

RST helps companies reduce and eliminate toxic respirable dust to keep workers safe



Gold Coast, May 21, 2020 ([Issuewire.com](https://www.issuewire.com)) - Leading developer and global supplier of dust management solutions Reynolds Soil Technologies (RST) has reported an escalation in demand for its cutting-edge dust suppression technologies due to growing awareness about the health risks associated with exposure to ultra-fine dust particles, particularly silica and coal dust.

RST works with companies in the mining, manufacturing and construction industries to ensure hazard controls and systems are in place that addresses dust across entire operations, from confined spaces and material handlings such as conveyors and transfer points, through to unpaved roads and open-source emissions including stockpiles and open-ground mining.

RST's Operations and Technical Director David Handel said RST was constantly involved in lowering dust levels for clients around the world and had observed an increasing demand for solutions that assisted in reducing and eliminating respirable dust.

“Through our extensive research over the last 30 years, we’ve developed ground-breaking technology to mitigate the complicated issues of maintaining clean air for workers,” Mr Handel said.

“Our management and control methods enable our clients to reduce exposure levels of respirable dust in the workplace and comply with new industry regulations as they become effective.

“By using our systems and solutions, companies can demonstrate that all reasonably-practicable hazard controls are in place and effective, and that attempts have been made to eliminate or minimise exposure while not exceeding the relevant exposure standard.”

Exposure to fine and ultra-fine dust particles can cause a range of respirable problems and diseases that may take years or decades before becoming noticeable.

Ultra-fine silica particles are among the most harmful of mineral dust, caused by cutting, grinding, drilling or otherwise disturbing certain types of stone, rock, sand, gravel and clay.

In Australia, which has some of the highest health and safety standards in the world, companies dealing with airborne contaminants have been told to halve the exposure limits for silica dust to 0.05 mg/m³ and further reduce the levels for other mineral dust from 2.5 mg/m³ to 1.5 mg/m³.

Based at the Gold Coast in Queensland Australia, RST develops its range of advanced products and services to meet local standards and are setting the benchmark for dust control around the world.

The company’s suite of advanced foaming and polymeric dust suppressants are widely used to suppress dust in a range of ways from binding particles and compacting materials, to creating a total blanket effect that stops dust particles from being released.

Mr Handel said the way in which a product is applied to a site can impact performance considerably, which is why RST customises both the product and the application equipment to achieve maximum benefits.

“When we develop a new product or system, our aim is to achieve immediate results, dramatically cut down water usage, improve safety outcomes and most importantly, address the needs of our clients,” he said.

Companies with minimal access to water are finding RST’s binding and foaming agents highly effective in controlling dust with half the amount of water normally used by conventional wet spray dust suppression systems.

The RST-developed Guardian Dust Binder is a multi-purpose micro polymer additive that requires minimal water to greatly improve dust control on open surfaces and through spray systems.

When applied on the material, whether stockpiled or being transferred, Guardian Dust Binder maximises water penetration and binds all fine particles together to stop dust from becoming airborne.

Guardian Dust Binder is just one of over-50 innovative products developed by RST to assist companies in the mining and quarrying, civil construction and agriculture industries throughout Australia and across the globe.

RST has more than three decades of experience in developing versatile and effective environmental

management solutions across a range of industry sectors including mining, quarrying, waste management, civil constructions and manufacturing in both Australia and overseas.

RST is an Australian business operating internationally, with projects currently in the United States of America, China, New Zealand, New Caledonia, Mongolia, Papua New Guinea, Indonesia, the Philippines, Malaysia, India, Colombia, Chile, Croatia, Argentina, Peru, Brazil, Mexico, Lithuania and the United Arab Emirates.

For more information, contact Reynolds Soil Technologies on (07) 5522 0244 or visit www.rstsolutions.com.au.



Media Contact

Louise Carroll Marketing

marketing@louiseccarrollmarketing.com.au

+61 5528 0000

PO Box 84, Main Beach, Gold Coast

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