



Australian PetroTac® Services Pty Ltd

Dust Control Solutions



www.dustcontrol.com.au

More than just a nuisance, dust is a pervasive problem. It undermines the health of people, machines and the environment. It can impair the most sophisticated equipment and technology.

Take Control of a Damaging, Costly Nuisance

Uncontrolled, dust can violate mandatory compliance levels.

The best solution for the problem?

PetroTac® Dust Control Solutions from APS, a pioneer in the formulation and development of affordable dust control programs.

Why? Because APS gives you an effective, durable method of dust control, surface stabilisation and water reduction for an extremely economical overall cost.



How PetroTac® Works

PetroTac® is a scientifically advanced emulsion specifically formulated to control dust emissions. It improves and stabilises unpaved road surfaces. It works by saturating, penetrating and bonding dust and aggregate particles together, creating a hard, durable surface that offers excellent longevity and superior load-bearing qualities. In fact, depending on the aggregate and preparation, PetroTac®-treated surfaces can look like paved roadways, sometimes after only one application. Environmentally safe, PetroTac® is applied with water but quickly cures to a water-resistant surface. As a result, treated surfaces aren't washed out or destabilised by rain or rain water run-off. Cured roadways remain intact even after it rains.

In addition, PetroTac® has been used in sensitive, environmentally delicate areas, because it has excellent non-leaching characteristics and doesn't contain PCBs or any of the other harmful contaminants often found in some suppressants.

Where PetroTac® Works

Since it was first introduced to the market in the early 1980s, PetroTac® has proven its effectiveness under a variety of climatic conditions and at a broad range of industry sites:

- Iron and Steel Mills
- Underground Mines
- Open Cut Mines
- Quarries
- Power Plants
- Rail Roads
- Coal Terminals
- Airstrips
- Government Depts/Agencies
- Defence Force
- Grain Terminals
- Shipping Terminals
- Shire Roads



"We looked at a lot of dust control options. Oils, salts, asphalt. But PetroTac® gave the best value for our dollar. A tough, stable roadway that holds up really well and we think we're doing a better job protecting the environment."

"PetroTac® not only stabilised our roadways and controlled the dust, it looked like we paved the roads after only a few applications!"

A wide variety of materials have been applied to unpaved roadways in an effort to control dust. But water, salts, oil based emulsions, petroleum resins and other chemical suppressants all provide limited effectiveness. Each of these alternatives presents its own set of problems.

Only the PetroTac® dust control system offers optimal performance, combining durability and effectiveness in one reliable, economical solution.

The Problem with Other Dust Control Alternatives

- **Water** can be an effective short-term solution, but when the moisture dries, it leaves the soil more fragile creating even more dust.
- **Oil-based emulsions** continually percolate and leach through the soil, never binding with the road bed particles to stabilise the surface.
- **Most asphaltic materials** create a thin top layer which is easily picked up and tracked by heavy equipment, leading to surface deterioration in the form of ruts, washboards and potholes.

The Optimum Alternative in Fugitive Dust Control



- **Salts and hygroscopic products** can be seriously undermined by heavy rains, and contribute to machine corrosion and expensive environmental damage to aquifers and streams.

The Benefits of the PetroTac® Dust Suppression System

One of the most widely used dust control and surface treatments available in today's marketplace, PetroTac's innovative chemical composition is specially engineered for elasticity, longevity and load-bearing qualities.

As a result, PetroTac® provides a broad range of end-use benefits, including faster, safer material transport, longer equipment life, improved efficiency and a healthier working environment.

- **Penetrating chemical compound** quickly bonds with road aggregate and cures to a water resistant surface, ensuring excellent durability almost instantly.
- **Superior soil stabilisation** improves load-bearing strength to ensure roadways will stand up to the toughest heavy equipment, such as the slab hauler's and slag pot carriers used in the steel industry and dumpers used on open cut mining
- **PetroTac® cures to a water-resistant surface** so quickly, it is completely effective even when applied a few hours before a rainstorm.
- **Fewer reapplications are necessary**, because PetroTac® decays less than other dust control alternatives.
- **A PetroTac® surface looks like an asphalt roadway** very quickly (and sometimes immediately), because PetroTac® stays where it lays and builds up over time. This increases the strength and elasticity of the surface, virtually eliminating washboards, ruts and potholes.
- **Proven safe in environmentally sensitive areas**, PetroTac® leads the industry when it comes to the prevention of leaching. Its naturally occurring resin base assures there are no chlorides, PCBs or other harmful contaminants the leach into the environment.
- **Uncommon applications and special situations** are part of our everyday experience. With custom capabilities, we'll find the right solution for your particular need.



Evaluating the Cost of a Dust Control System

Some dust control alternatives appear to cost very little in the short run. However, a “cheap” solution can cost a lot more in the long run. That’s why its so important to evaluate all the costs associated with any dust control program. That’s what makes PetroTac® so popular- it delivers optimum benefits for the lowest overall cost.

- **Improve long-term durability** and minimise the frequency of reapplications. PetroTac® stays put and builds up quickly, giving unpaved roads the look and strength of asphalt surfaces without the expense of paving.
- **Reduce water consumption** PetroTac® minimises water used for dust suppression.
- **Reduce maintenance needs** and keep transportation arteries

stable and clear. PetroTac® remains stable to help eliminate ruts and potholes, so you spend less on road maintenance and more on productivity.

- **Eliminate erosion repair**, because PetroTac® penetrates, bonds and stabilises surfaces so you save on time, materials and money.
- **Minimise vehicle damage and tyre wear** to keep equipment running longer. PetroTac® doesn’t contribute rust and corrosion like damaging salts will. PetroTac® will give you a stable road reducing tyre consumption.
- **Decrease downtime** and maximise uptime. PetroTac® will stabilise haul roads and will minimise and/or eliminate downtime due to wet weather periods.



No two sites or situations are identical, so APS develops individual solutions for each PetroTac® customer. The first step is a detailed analysis of the site, which involves everything from evaluating the soil and aggregate to assessing the climate and compliance. APS works as your partner to develop effective work place practice standards that will keep you on top of any compliance requirements, whether or

not you’re responding to a notice of violation. We also offer a complete record of your dust control program, documenting application schedules, weather logs, actual precipitation records and preventive maintenance checklists. Accumulated on a monthly, quarterly and year-to-date basis, these reports provide you with the comprehensive data required for proof of compliance.



You Partner in Dust Control and Compliance



“I’ve been impressed with how quickly PetroTac® cures. We can drive on it almost immediately, and even when it rained shortly after the application, the surface seemed completely unaffected”

Now See for Yourself

Dust control is a complex problem that involves a number of issues: cost, effectiveness, compliance, environmental impact and health.

We can tell you PetroTac® is better, but we also think you should see for yourself.

That's why we're prepared to provide you with proof: test results, technical literature, environmental reports and hard engineering data.



Whatever your project or application, APS has the answers to your needs. Through years of proven success, we've helped customers like you solve their dust control problems – effectively, economically and reliably. So call us today about your particular situation.



Dust Control Solutions

Australian PetroTac® Services Pty Ltd

111-117 Montague St

North Wollongong, NSW

Australia 2500

P: +61 2 4229 9922

F: +61 2 4227 6076

E: info@dustcontrol.com.au

W: dustcontrol.com.au