

HIWAY

HIWAY Masters Range

MASTERDUST

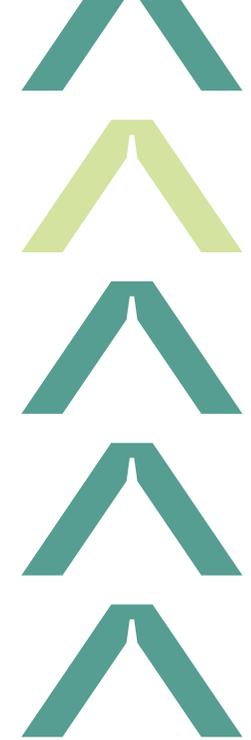
Breathing better life into our pavements



HIWAY Masters Range

Drawing on nearly 40 years experience, the **HIWAY Masters Range** sets a new, environmentally-conscious standard for pavement performance. With an emphasis on innovation and durability, the range comprises of a collection of services and solutions that put HIWAY's extensive research and development into use. Alongside best practice methodologies, HIWAY now offer carbon-conscious solutions that work better, for less.

We work closely with our customers, in both the private and public sectors, to understand their unique needs. Gaining a deep understanding around the roadblocks of traditional infrastructure projects, maintenance techniques and solutions, the **HIWAY Masters Range** is here to set a new global standard, enabling improved critical outcomes and quality of life, and a better future for the customers and communities we serve.



HIWAY



HIWAY. Working together for better

Our roads, railways and runways connect us. They connect us to our great outdoors and our way of life. Across great distances they sustain families, friendship and businesses – whole communities – and for nearly four decades, HIWAY has stood at the forefront of pavement infrastructure and maintenance innovation, offering cutting-edge solutions that place an emphasis on community and the environment.

Specialising in providing world-class sustainable pavements across Australasia, our expert team of 250+ are dedicated to improving decarbonisation opportunities, optimising time efficiency, and minimising reliance on new virgin materials. With an unwavering and steadfast commitment to research and development, alongside our highly valued research partners, our innovative HIWAY Masters Range is data-driven and evidence-based, allowing us to develop world-first products that significantly outperform traditional alternatives.

Our communities deserve it.
Our environment depends on it.

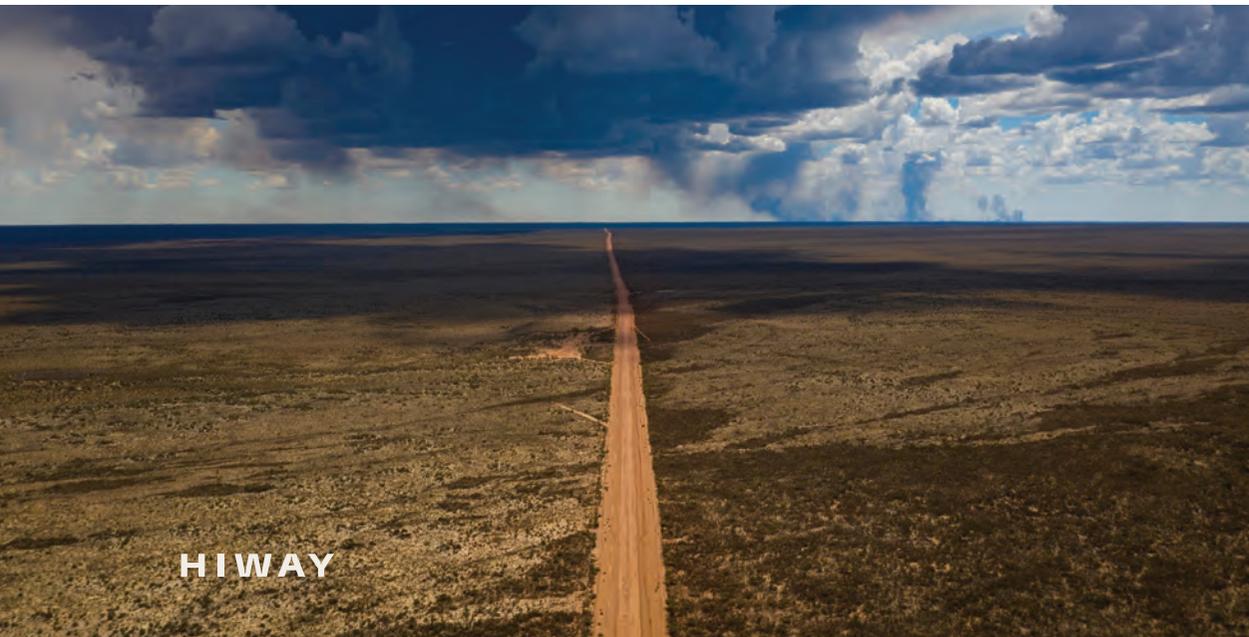


MASTERDUST

Locking down dust for our people and our planet

The **HIWAY MasterDust Series** offers an instantaneous, hygroscopic dust suppression solution designed to draw moisture from the atmosphere, effectively reducing airborne dust on rural roads, haul roads, runways, hardstands and more.

Providing road users with a safer, smoother driving surface, improved air and water quality, better visibility, cleaner vehicles, as well as cleaner properties and vegetation, the **HIWAY MasterDust Series** provides a range of highly cost-effective solutions that lock down dust for extended periods of time.



HIWAY

How it works

HIWAY MasterDust can be used to restrict dust on new roads as well as maintain pre-existing roads, affording communities who live and work on rural, unsealed roads, a healthier and safer living environment. By binding small soil particles around large soil particles, **HIWAY MasterDust** provides an engineered matrix that even in the driest conditions ensures particulate matter is reduced to acceptable regulatory standards.

For pavements that require both dust control and structural improvement, **HIWAY MasterDust S** is the answer. Providing the same effective dust suppression outcomes as **MasterDust**, **MasterDust S** also improves the structural performance and longevity of the pavement with significant strength gain.

Whatever your budget and requirements, either solution in the **HIWAY MasterDust Series** helps ensure roads are kept at adequate moisture levels to naturally compact under the weight of traffic. Reducing the need for future repairs and promising a cost-effective solution for maintaining roads over time.

Once treated with a **HIWAY MasterDust** solution, surfaces are transformed from the date of installation, with diminished dust presence which presents both immediate and long-term benefits for the environment and the wider community.

Sustainability and the climate

Climate change continues to challenge outdoor infrastructure with increasing heat waves, rainfall and weather extremes across Australia and New Zealand. As a result, developing resilient and durable roads that work cohesively with the environment and its changing conditions is essential for community health and visibility whilst driving and/or manoeuvring machinery.

The **HIWAY MasterDust Series** is a blend of naturally occurring constituents, blended with environmentally friendly proprietary additives, with near neutral pH Balance.

Whether you're looking for a new surface designed to ensure better air quality, visibility and improved pavement strength, or renew and extend the life of a previously treated surface, HIWAY will deliver a bespoke solution to meet your requirements.

Innovating the way we design and maintain roads, the **HIWAY MasterDust Series** is the natural solution that puts our people and our planet first.

BEFORE



Typical Pre-Treated Pavement Surface



Dust Generated by Passenger Vehicle Pre-construction

AFTER



1 Week Post Construction

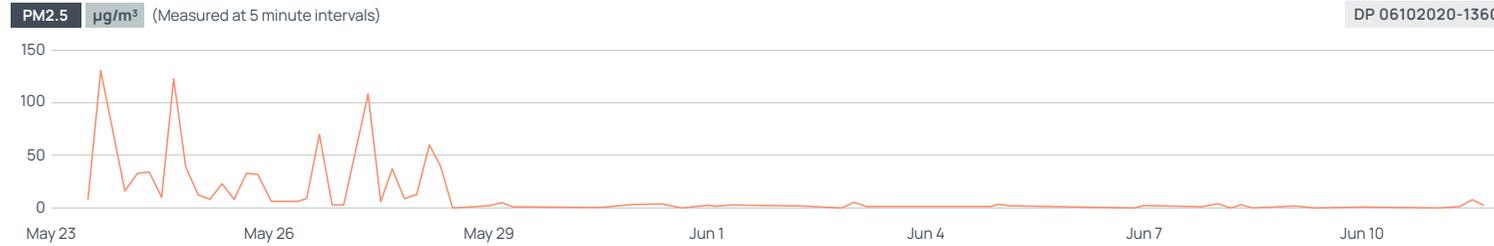


6 Months Post Construction

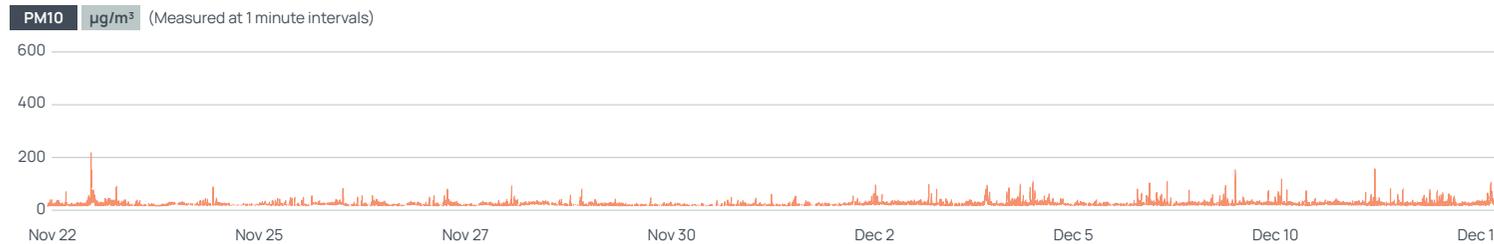
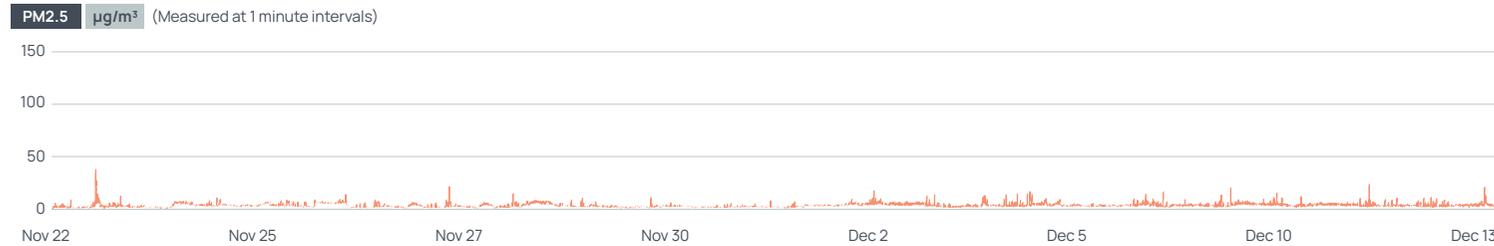


Demonstrable results

Dust Measurement Pre and Post Construction



Dust Measurement 6 months Post Construction



Collaborating with a local contractor, HIWAY implemented **HIWAY MasterDust S** for Mid Murray Council, South Australia. Dust levels were measured one week prior to treatment, establishing critical baseline levels, and continued for an additional two weeks post-treatment illustrating exceptional and immediate dust suppression results. Further testing at the same location six months later highlighted the success of this large-scale trial project with sustained dust suppression from passing traffic, while also maintaining enhanced road stability, moisture resilience and surface integrity.

Display reference:
PM2.5 = 2.5micron (0.0025) dust size.
PM10 = 10micron (0.01mm) dust size.

Conclusion

The **HIWAY MasterDust Series** provides unparalleled results for regions grappling with unravelling pavements and dust.

The ideal solution for unsealed rural roads, haul roads, runways, hard stands and more, the **HIWAY MasterDust Series** and its bespoke dust suppression capabilities create safer and healthier roads for communities and workers.

While **HIWAY MasterDust S** is the premium option contributing additional pavement strength, each solution is recommended based on individual project requirements, customised to deliver market leading value and superior pavement performance.

Offering improved road and driving conditions, reducing rolling resistance, better air quality, enhanced visibility, cleaner vehicles and vegetation, it's a cost-effective solution that both improves the state of our environment, and the health of our people.

Leveraging purpose-built equipment and an expert team with nearly 40 years experience in the industry, HIWAY brings decades of experience and research to the market with both the environmentally-conscious **HIWAY Masters Range** and its new **MasterDust Series**.



With **HIWAY MasterDust** solution, you can:

Lock down dust for extended periods of time, creating healthier and safer living environments for communities and businesses.

Enhance pavement resilience by improving surface integrity, resulting in superior ride quality for unsealed roads

Save on resources such as water, aggregate replacement, machinery running costs, labour, administration time and management of public health concerns.

Have a smaller impact on the environment, with better results.

HIWAY

By working together, we can advance a more balanced, sustainable and carbon-conscious network for all.

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Our communities deserve it.
Our environment depends on it.

HIWAY is the largest innovation specialist in sustainable pavement and road recycling in Australasia.



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