



Ecobond

Reinforced Bitumen

Mine Haul Road Dust Control

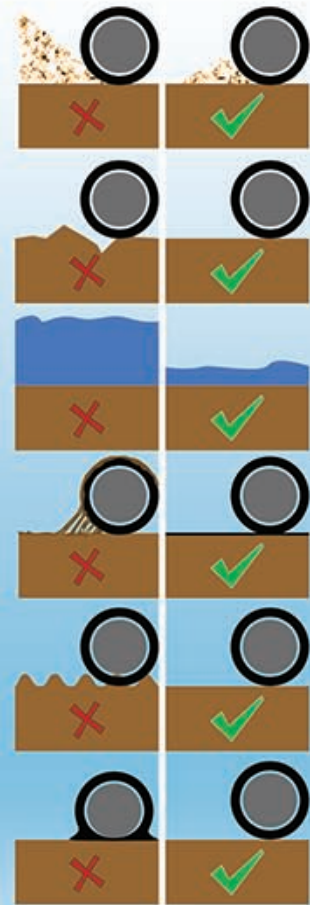


**Use Ecobond
to reduce:**

- Dust
- Vehicle operating costs
- Water consumption
- Frequency of application
- Road maintenance costs
- Accidents

Ecobond's unique features and patented technology put it in a class of its own.

- **Dust** - Ecobond binds dust particles together increasing weight and reducing airborne particles.
- **Vehicle operating costs** - Ecobond modified layers provide a smoother driving surface reducing operating costs.
- **Water consumption** - Higher durability means less applications and water saved and less traffic on your roads.
- **Quick drying** - does not make roads slippery or sticky, is immediately trafficable and dries within 3 hours.
- **Road maintenance costs** - Ecobond improves cohesion and bearing capacity of soil even when wet thereby reducing rolling resistance & maintenance requirements.
- **Accidents** - Less dust and better driving surface mean less accidents.



3 Types of Ecobond Dust Control Applications:

SprayOn

Ecobond water solution can be sprayed on as dust control. The fact that it chemically reacts and becomes strong and water insoluble means no leaching, improved cohesion* and durability. Ecobond SprayOn gradually builds a driving surface that does not wash away. Maintenance resprays can be done when and where required (depending on traffic e.g. weekly)

ModSpray

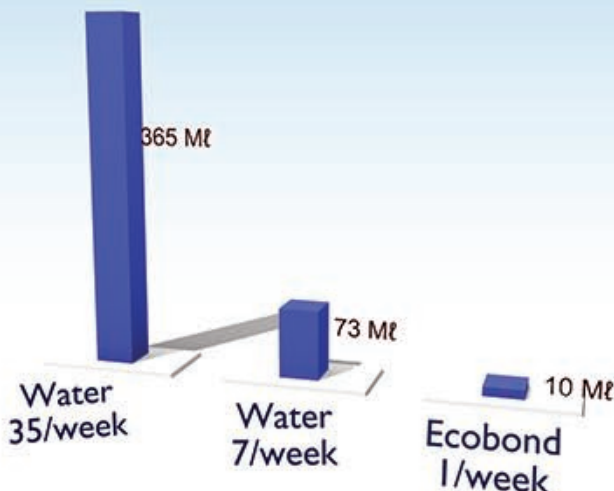
Modification is the process of mixing low dosage Ecobond into the base/wearing course of the road. This improves the cohesion and shear strength of the layer substantially and creates a water resistant base for the SprayOn, increasing durability and reducing maintenance requirements.

StabilMix

If dust, rolling resistance or safety is an issue, the best solution is often to construct a driving surface supported by an engineer designed pavement structure capable of withstanding heavy traffic. This can be a cost effective system when considering long term life cycle costs, e.g. 10 - 20 year period (see TG2 BSM, Colto TRH, etc. designs.)

Water savings

Spraying once per week uses 21 times less water and diesel than 3 times per day.



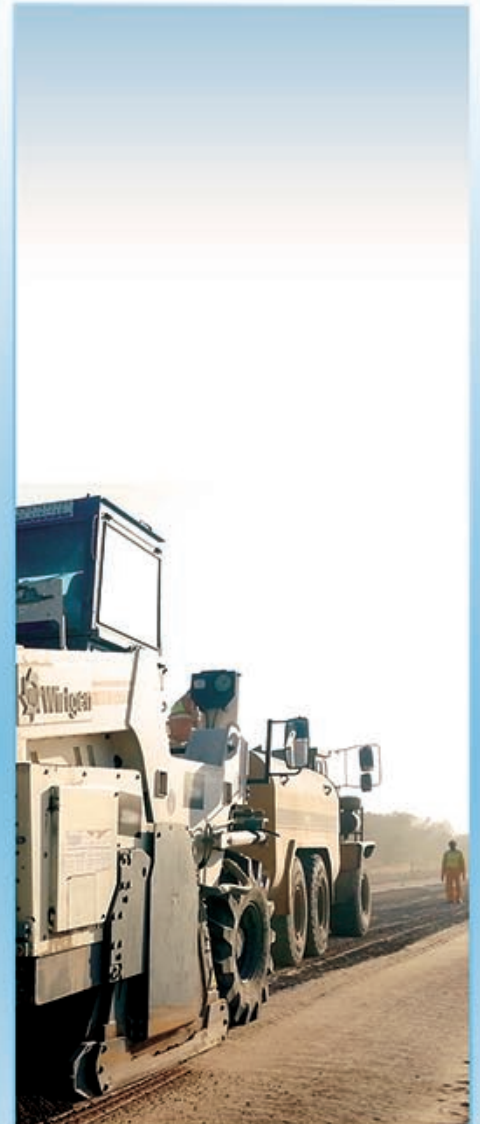
Example: Water savings

* "In broad terms, the effectiveness of any dust suppression system is dependant on changing material erodibility or erosivity...
... Erodibility is reduced by cohesion, which increases with clay content and/or the use of additional chemical binders." - *Mine Haul Road Fugitive Dust Emission and Exposure Characterisation 2001*

Use Ecobond for heavy duty roads, low volume roads & untrafficked areas:

Select a SprayOn or MixIn solution from:

- 1. SprayOn** - An initial higher dosage spray that penetrates deeper. This provides effective dust control at low cost from maintenance budgets. Resprays cost less than the initial SprayOn as the lower dosage penetrates less and are applied only as needed. The SprayOn can also be used for untrafficked areas such as dumps, stockpiles and helipads.
- 2. ModSpray** - Improve the wearing course bearing capacity (cohesion) and water resistance significantly using maintenance budgets, reducing dust. Repeated maintenance SprayOns bind surface dust into the road, fewer resprays are usually required than in 1 above.
- 3. StabilMix** - A higher dosage is mixed into a stabilised base with a blacktop seal which isolates the dust from wheels and weather. This capital budget application is a more economical approach than repeated respraying, in spite of the higher initial cost. Maintenance consists mainly of maintaining the bituminous seal. If no bitumen seal is used, respray as above to maintain.



Ecobond effectively helps to control dust and can provide many cost saving benefits. High strength, low cost, water insoluble, reinforced bitumen delivers long term strength at a price that is hard to beat.

Contact us for a quotation or further information.

Techneco (Pty) Ltd (sole Ecobond manufacturer) is a materials supplier and does not construct roads or apply dust inhibition. Choose your preferred construction team, one of our distributors or contact us so that we can recommend a suitable applicator in your area.



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