



GATT (GRADED AGGREGATE TOTAL TREATMENT SURFACING)

ASPHALT SPECIALTY PRODUCTS

GATT is an ideal surface treatment for gravel roads and specialised resurfacing

WHAT IS GATT SURFACING

- GATT is an ideal surfacing product for gravel roads but has also been applied as a specialised resurfacing in unique circumstances
- GATT is self-priming and uses graded aggregate unlike basic seals
- GATT can be a pragmatic alternative to routine maintenance such as regular grading or re-gravelling
- GATT is most suitable for surfacing roads which carry light to medium traffic but has been used for specific heavy loading applications.

WHY SHOULD YOU SURFACE YOUR GRAVEL ROAD WITH A GATT SURFACING

Gravel roads can increase the risk of accidents and their rough surfaces lead to increased vehicle operating costs through their uneven surfacings.

Gravel roads can be costly to maintain because they require regular grading and regravelling.

GATT can have a higher initial cost but lower whole of life cost than routine maintenance, especially when erosion of the gravel surface due to traffic and adverse weather is factored in.

BY SURFACING A GRAVEL ROAD WITH GATT YOU CAN:

- Prevent erosion of gravel by traffic and weather
- Improve the quality of life of communities living next to unsurfaced roads by eliminating dust
- Provide all weather accessibility and reduce the time of transportation as it is easier to drive on a sealed road
- Improve road safety by treating loose gravel, corrugations and mud on unsealed roads which can cause vehicles to skid in both dry and wet weather conditions.



GATT surface texture
(more akin to asphalt texture)



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WHAT MAKES GATT DIFFERENT FROM OTHER SPRAY SURFACING TYPES?

GATT consists of a special binder and graded aggregate which:

- Allows the binder to penetrate the base course and migrate through the surfacing aggregate
- Gives internal flexibility so that it does not crack easily when exposed to weaknesses in the base
- Improves durability by allowing a higher binder and stone application
- Improves the service life of the surfacing due to the stone interlock and elastomeric properties of the binder more so when polymer is used
- Displays self healing properties due to the higher content of softer binder and the mastic developed with fines in its structure
- Can be applied without the need for costly reconstruction of the existing road pavement.

HOW TO CONSTRUCT A GATT SURFACING

GATT surfacing can be applied to an existing gravel road which has been shaped and well compacted. The performance of a GATT surfacing will depend mainly on the quality of the insitu gravel material and the stormwater drainage. Ideally the gravel base course should have a history of adequate performance and be strong enough to support expected loading. Ingress of storm water into the base will result in premature failure of the surfacing.

One of Boral's surfacing crews will apply the special binder and graded aggregate to the prepared gravel base course. No priming of the gravel base is necessary. The surface of the gravel base needs to be slightly damp and free of any loose material. The surfacing can be applied throughout the year almost anywhere in Australia.

No brooming of the newly constructed surfacing is required although it may be necessary to broom back the loose aggregate in the wheel paths after two weeks. The surfacing is sensitive to sharp turning movements in its early life and must not be applied at very busy intersections.

WHERE HAS GATT BEEN USED?

GATT surfacings have been used in Australia since 1999 with close to 700,000m² being placed to date. The life expectancy of a GATT surfacing with polymer modified binder is typically 10 years under normal traffic conditions. An existing GATT can be resurfaced with either a single sized stone seal or a second GATT surfacing.

GATT offers a real alternative in growing communities where budgets for full scale reconstruction and surface sealing are limited but at the same time the amenity demanded by residents cannot be satisfied by routine maintenance of a gravel road.

In these circumstances, asset managers can apply GATT to seal the prepared granular surface thereby deferring the upheaval and cost of major pavement works.



The penetration of GATT binder into the gravel base course.

CONTACT US

Visit www.boral.com.au/asphalt for more information about Boral's range of asphalt products.

For orders and enquiries about GATT (GRADED AGGREGATE TOTAL TREATMENT SURFACING)

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SA (08) 8425 0400 - WA (08) 9451 6466

The particular circumstances of asphalt projects, including site conditions, equipment and weather can vary significantly and dictate the use of particular materials and techniques to address challenges presented by those circumstances. The application guide should be viewed as a general reference only. Boral recommends you seek professional advice tailored to your project before using this product.

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