



EME2

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A high modulus asphalt mix designed to reduce pavement thickness

EME2 is a specialist asphalt mix with the principal benefit of reducing pavement thickness, while maintaining structural capacity.

What is JetBind?

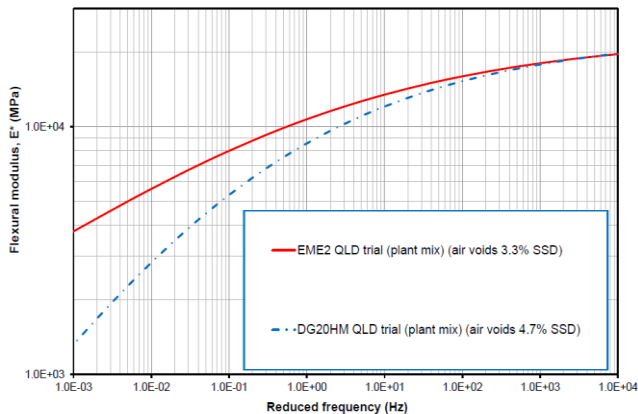
EME2 is the latest generation of Enrobés à Module Elevé (EME) Class 2 technology, which was originally developed in France and has been used internationally for a wide range of heavy duty pavements.

The primary objective of the EME2 pavement design is to reduce thickness while maintaining performance. EME2 mixes use very hard paving grade bitumen at a high binder content, in order to achieve high modulus and high fatigue-resistance properties compared to standard dense grade asphalt mixes.

What sets EME2 apart?

EME2 exhibits the following benefits, when compared to standard hot mix asphalt:

- High stiffness
- Superior resistance to deformation
- Greater moisture resistance
- Increased pavement life
- High durability
- Good fatigue resistance
- Good workability



Flexural stiffness master curves of DG20HM and EME2.

With EME2 providing a thinner pavement design when compared to normal dense graded asphalt, it reduces the amount of excavation and soil disposal required resulting in a significant cost savings. As well as this, there are additional environmental benefits from the reduction of virgin aggregates used and fuel involved in transportation of materials.

Delivering an extended pavement life compared to standard asphalt, less maintenance work is required to sustain the pavement. This not only provides a further reduction on total pavement life costs, but also additional safety benefits as it reduces workers exposure to live traffic.

How EME2 works?

EME2 asphalt creates a pavement designed for heavy traffic loads that is thinner than conventional asphalt, by using a stiffer binder at a higher content in the asphalt mix. This relatively high binder content provides enhanced elasticity in response to repetitious wheel loadings. EME2 is placed with low air voids (-6%) to provide high durability and performance under heavy traffic loads.



EME2 being placed at the Port of Brisbane enabled Fulton Hogan to deliver a successful pavement, overcoming a number of challenges including time constraints, weather conditions and environmental concerns; whilst reducing costs and assuring quality.

How to apply EME2?

EME2 is installed using conventional paving equipment; however it is completed to prescriptive processes and tight standards to ensure performance. Fulton Hogan take all the necessary steps and procedures to ensure the highest levels of quality, safety and environmental responsibility are maintained when constructing asphalt pavements; such as EME2.

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