



DURAFIL



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DURAFIL is a special blend of fly ash and hydrated lime. Developed to provide optimum performance in hot asphalt mixes.

DURAFIL is specially developed product for hot mix asphalt (HMA). The product offers asphalt pavement technologists to select from wide range of blends for optimizing their pavement design parameters. The product is produced by blending black coal fly ash and hydrated lime in various proportions in custom blends at our state-of-art blend facility. DURAFIL is a premium quality hot mix asphalt filler which conforms to VicRoads 407.04 and AS 2150.

Not only DURAFIL final product but also the materials used in DURAFIL are strictly quality controlled in accordance with Australian standards. DURAFIL is available in the following standard proportions as well as for customised special blends.

Table 1: **Standard mix proportions in DURAFIL**

Test type	Percentage (%)
Hydrated Lime	15-100
Fly ash	0-75

Table 2: **Properties of asphalt hot mixes with DURAFIL**

Test type	Properties
Voids dry compacted filler	> 38%
Moisture content	< 3%
Loss on ignition	< 4%

WORKABILITY

Ash-Lime modifier increases the compactive efforts required to compact specimens to the same volume or air voids content.

PERFORMANCE

DURAFIL has been successfully used in several road projects across Victoria. Previous research and field performance data by asphalt expertise show fly ash and hydrated-lime blend enhances the properties of hot asphalt based pavements.

- 1 Hydrated lime and Fly ash in the DURAFIL reduces stripping
- 2 Fly ash and Hydrated lime blend acts as a filler to stiffen the asphalt binder leading to reduced rutting
- 3 Hydrated lime in the DURAFIL reduces the aging effect by changing oxidation kinetics
- 4 DURAFIL can alter the plastic properties of clay fines to improve the moisture stability and durability

SUSTAINABILITY

DURAFIL contains a significant percentage of fly ash which provides antistripping properties in the mix. Fly ash in the filler reduces the cost of the product, as well as allowing for the utilisation of an industrial by-product, leading to a more sustainable outcome.



**Independent
Cement**

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