

DURAPHALT HM®



bringing materials to *life*™



Lafarge Asphalt is committed to being the leading developer and supplier in North America, of innovative asphalt products designed to optimize quality, performance, durability and sustainability.

Duraphalt HM® is a heavy duty asphalt based on stone mastic asphalt technology designed to reduce wheel rut damage caused by heavy and/or slow moving vehicles.

Product Overview

Duraphalt HM (high modulus) consists of stone-on-stone aggregate skeleton with a mastic comprising of mineral filler, fiber or ASM and PGAC and/or PMA asphalt cement. The stone-on-stone aggregate skeleton (gap-graded) provides excellent rut resistance against very heavy slow moving wheel loads and the mastic coats the coarse aggregate creating a very high film thickness for exceptional durability.

The use of polymer modified asphalt is recommended for heavy-duty commercial and industrial applications, such as industrial estates, ports and container areas, warehouses and commercial premises.

Duraphalt HM may also be used for pavement applications, where heavy goods vehicle (HGV) distress has caused damage and failures with more conventional hot mix asphalts, especially at intersections and traffic circles and areas where wheel track rutting is an issue.



Duraphalt HM® Technical Details

- Improved fatigue resistance and durability
- Enhanced tire noise reduction
- Increased safety through enhanced macro texture provides spray reduction and increased skid resistance
- Improved design life by minimum 4 years
- Improved life cycle costs through maintenance costs reduction

Performance

Duraphalt HM has been subject to a rigorous performance testing regime, providing the following performance results:

- 1) Wheel rut test depths less than or equal to 5.0mm and 8.0mm after 8000 cycles at the standard high temperature using the APA WRT for heavy duty application and medium/light duty applications, respectively, AASHTO TP 63
- 2) Minimum fatigue resistance of 150,000 cycles to failure at 480µm and 18°C, AASHTO T321



Lafarge's commitment to sustainability

Sustainable construction practices and products represent the future of our industry, and Lafarge is proud to offer the DURAPAVE line of asphalt products that contribute directly to the reduction of greenhouse gas emissions, reduced waste materials in landfills, and extended life spans for aggregate resources.

Last year, Lafarge's asphalt operations across North America recycled nearly 200,000 tonnes of material into new asphalt through our Duraphalt and Duracycle products. Our proprietary warm-mix technology, Duraclime, consumes less fossil fuel to produce than conventional hot mix, which means lower carbon dioxide emissions at our plants, and reduced smoke and fumes from the mix on the job site.

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