Hydrated lime extends pavement life by 25% 

Over the past 40 years, hydrated lime has become one key additive for asphalt mixtures. Its benefits are well-known in Europe, where it is being increasingly used.

North American State agencies estimate that hydrated lime increases the durability of asphalt mixtures from 20 to 50%. In Europe, French road managers suggest that the beneficial effects of hydrated lime give increased durability of 25% in terms of wearing course service life expectancy.

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Hydrated lime
a multi-functional modifier

Using hydrated lime as an additive in asphalt mixes increases their durability through the improvement:
- of resistance to moisture damage and frost,
- of resistance to chemical ageing,
- of mechanical properties, in particular modulus, strength, rutting resistance and fatigue.

Hydrated lime
a cost-effective solution

Using hydrated lime as an additive in asphalt mixes is the most cost-effective solution, allowing:
- better financial return from pavement investments,
- minimizing the public inconvenience that results from the repair and maintenance of pavements.

Lime
an essential raw material

Lime is a product derived from limestone in an industrial process. Naturally occurring limestone, which is composed almost exclusively of calcium carbonate (CaCO₃), transforms into quicklime (calcium oxide (CaO)) by heating. When slaked with water, quicklime transforms into hydrated lime, which is a dry powder composed of calcium hydroxide (Ca(OH)₂).

Due to its particular chemical characteristics, lime is extensively used in several industries and is therefore important to many aspects of peoples' every-day lives. Lime is widely used in environmental protection (purification of water, waste water treatment, flue gas cleaning, hygienisation). Lime is extensively used in the iron and steel industry and in numerous other downstream manufacturing industries (chemical, glass, paper, plastics, paints, cosmetics, rubber and many other applications). Lime is an important element in construction materials and in civil engineering (bricks, mortars, roads, asphalt, railways). Lime finds applications in farming, agriculture and forestry (fertilizing, hygienisation, neutralization).

Hydrated lime for asphalt mixtures is CE marked and specified under the building lime standard (EN 459-1).