



GO GREEN WITH COLAS

An initiative from Colas Ireland



Laying cold-mix asphalt base course on the N21 Ring of Kerry 2014

COLD-MIX ASPHALT

Hot-mix asphalt is so-called because the aggregates used are heated up to 170-190 °C. However, thanks to the bitumen emulsion technology used, the aggregates are not heated for the production of cold-mix asphalt.

As a result, the manufacture of cold-mix asphalt requires a lower fuel use (i.e. lower energy) with a consequent reduction in carbon emissions.

Carbon emissions are reduced by up to 18 %, when compared to the conventional hot-mix options.

GOOD TO KNOW

- Cold-mix asphalt such as Grave-émulsion and Stabilized Wet-Mix have been paved by the Colas Group in Ireland since the 1980's;
- Suitable for the base and binder course for all road categories;
- Bitumen emulsion technology results in a more flexible mix with a longer fatigue life.



Example;

A saving of 14 tonnes of CO₂ eq. per km of pavement can be achieved, if we substitute a 12 cm thick layer of AC 32 base course hot-mix asphalt with a 12 cm layer of grave-émulsion cold-mix asphalt - as calculated using the SEVE carbon calculator for a pavement width of 7 m.

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