



GO GREEN WITH COLAS

An initiative from Colas Ireland



No smoke at jobsite

WARM-MIX ASPHALT

A warm-mix asphalt is simply a hot-mix asphalt manufactured at a lower mixing temperature. As a result, less energy is needed.

Use of a bitumen additive called CWM, enables the mixing temperatures to be reduced by up to 35°C. CWM works by reducing the surface tension at the bitumen-aggregate interface.

In Ireland, carbon emissions could be reduced by over 10,000 tonnes per annum, if warm-mix asphalt was used in place of hot-mix asphalt.

GOOD TO KNOW

- Energy use at the hot-mix plant is reduced by 20%;
- Carbon emission are also reduced by 20%;
- Smoke and VOCs at the jobsite are reduced by 80%!
- Performs like hot-mix, in every other way;
- Over 7 million tonnes have been paved worldwide, since 2008.



Example;

A saving of 16 tonnes of CO₂ eq. per km of pavement can be achieved, if a 22 cm thick pavement (base and surfacing) is made using warm-mix asphalt instead of hot-mix asphalt – as calculated using the SEVE carbon calculator for a pavement width of 7 m.



WE OPEN THE WAY

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