



# GO GREEN WITH COLAS

An initiative from Colas Ireland



Recycling job, Ireland

## COLD IN-SITU RECYCLING

In addition to being a cold technique, in-situ recycling with bitumen emulsion makes use of the pavement materials that are already on site.

This combination results in this recycling process being one of the most environmentally sustainable and low carbon road maintenance techniques. There is less use of valuable aggregate resources and there is less transporting of pavement materials from a quarry / asphalt plant to the jobsite.

Carbon emissions are reduced by up to 80 %, when compared to a conventional 6 cm thick mill out and replace hot-mix overlay.

### GOOD TO KNOW

- Is used worldwide, under all traffic levels;
- Mostly used to form a new base course;
- The bituminous binder already present in the pavement can also be recycled;
- The process is fully described in the “IAT Best Practice Advice for Cold In Situ Recycling of Low Traffic Volume Roads”.



Example;

**A saving of 40 tonnes of CO<sub>2</sub> eq. per km of pavement can be achieved, if we substitute a milling out and laying a 6 cm thick layer of AC 20 dense bin hot-mix with a 6 cm thick layer of emulsion bound recycled mix – as calculated using the SEVE carbon calculator for a pavement width of 7 m.**



WE OPEN THE WAY

#### Contacts - Cold in-situ recycling

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