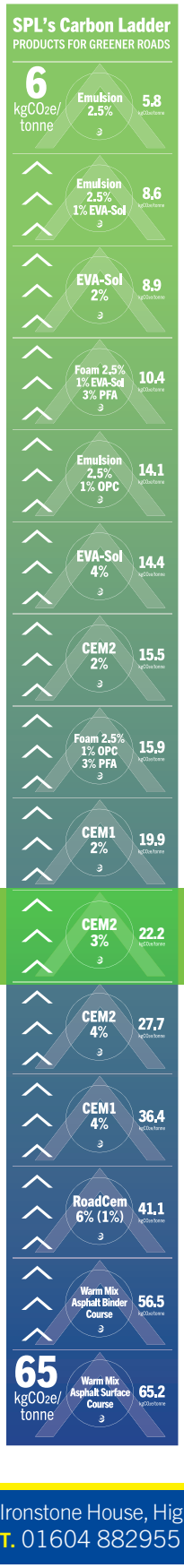
CASE STUDY

B7015 West Lothian Deep in-situ recycling



Scheme:	B7015 West Lothian
Authority:	West Lothian Council
Date:	November 2024
Area:	3,435 m²
In-Situ Process:	200mm deep in-situ recycling
Surfacing:	Tarmac's ultilayer
CO_2 Saving:	96 tonnes (49%)

West Lothian Council

"West Lothian Council sought to utilise Stabilised Pavements Limited's In-Situ road recycling process, in order to reduce project costs due to the need to reconstruct the existing carriageway due to failures in the lower layers.

The traditional approach of milling out and reconstructing the carriageway with virgin material became a costly prospect due to the presence of coal tar bound layer within the carriageway construction. The presence of this material would have represented a significant cost if disposal was required. As such the council sought a solution which would eliminate the need to remove this material while also improving the overall carriageway construction. As all existing asphaltic material was able to remain on site and the recycled material overlaid with a traditional 100mm binder and surface course the overall carriageway construction was improved significantly.

By using Tarmac's Ultilayer material for the final surface course, it improved the programmed timeline for laying whilst also addressing site restrictions. This material should address any issues with reflective cracking which was prevalent on the route prior to resurfacing. The use of this material also allowed works to progress during a period of cold weather, which would not have been possible if using a traditional chipped Hot Rolled Asphalt, as laying was permitted down to -1 degree Celsius.

By utilising this process, the council were able to benefit from improved environmental savings, limited disruption to local residents by reducing construction time, and a **carbon saving of 49%** over traditional methods."

Paul Horan

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