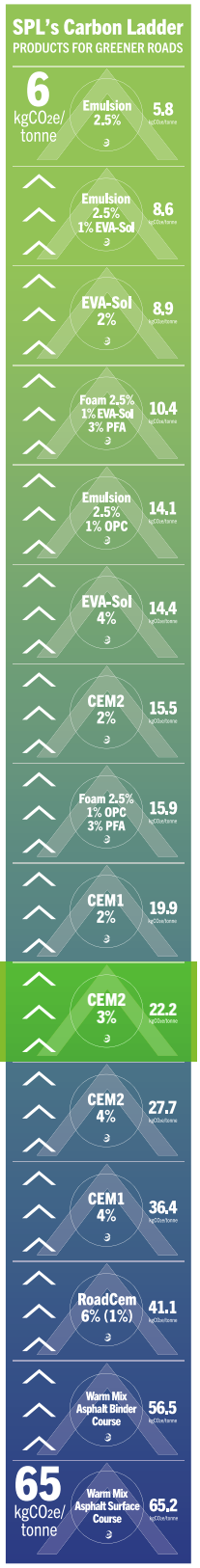
CASE STUDY

Deep In-Situ Recycling, Link Road, Monmouth

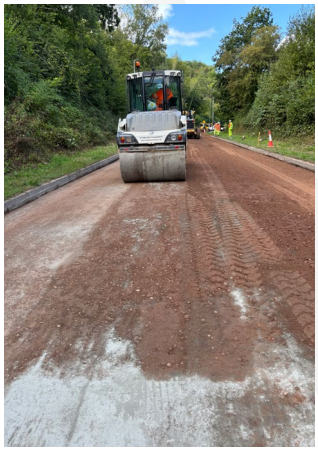


1. PROJECT OVERVIEW

SCHEME	Link Road, Monmouth
CLIENT	Monmouth County Council
DATE OF WORKS	September 2026
TREATMENT AREA	6,868 m^2
IN-SITU PROCESS	Deep In-Situ Recycling
RECYCLED DEPTH	250mm
SURFACE COURSE	100mm
CO_2 SAVING	39% - 97 tonnes of carbon saving

PROJECT OVERVIEW:

The Link Road, Monmouth project demonstrates how Deep In-Situ Recycling can deliver a highly sustainable and cost-effective pavement solution while significantly reducing the demand for virgin construction materials.



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THE CHALLENGE:

The existing pavement structure required substantial intervention to restore long-term structural integrity and ride quality. Traditional reconstruction would have involved excavation, removal of existing materials, importation of new aggregates and asphalt, and additional regulating layers to achieve finished levels.

THE SOLUTION:

A 250mm Deep In-Situ Recycling treatment was selected. The process recycled 2,951 tonnes of existing road materials directly on site and a 100mm asphalt surface course was applied to provide a durable running surface.

SUSTAINABILITY BENEFITS:

The Deep In-Situ Recycling solution enabled 2,951 tonnes of pavement material to be recycled on site, achieving 100% recycled content. By comparison, a traditional asphalt reconstruction would have achieved approximately 62% recycled content.

COMMERCIAL ADVANTAGES:

The recycling process eliminated the need for asphalt regulating layers. On a traditional resurfacing scheme covering 6,868m^2, a 10-15mm regulating layer would typically be required. Avoiding this layer reduced asphalt tonnage, material deliveries and construction costs.

PROJECT OUTCOMES:

2,951 tonnes recycled on site; 100% recycled content achieved; no regulating layer required; 6,868m^2 treated.

CONCLUSION:

The scheme delivered substantial environmental and commercial benefits by maximising material reuse and reducing construction impacts.