SteelPave™

SteelPhalt™

Application Opportunity

The A631 located in Rotherham, South Yorkshire, is a single carriageway that carries a high volume of traffic to and from the M18. This road was selected for resurfacing because of the planned improvement to add a dedicated bus lane in the area. Additionally, the development of newly constructed industrial and commercial units nearby will subject the road to far more wear and tear. The A631 needed investment due to the projected increase in traffic from the construction as well as the highway showing severe signs of fatigue, with reflective cracking and rutting evident.

Recommended Product

10mm SteelPave was offered as the solution due to its durability, resistance to deformation, skid resistance and spray reduction properties.

SteelPave, one of SteelPhalt's proprietary mixtures, is made with 95% recycled steel aggregate which provides both exceptional durability and high skid resistance properties that in-turn extends the service life of the road and has a significantly lower carbon footprint.

Results and Benefits

1500 tonnes was laid on the A631 in 2024, which delivered the requirements from the local authority. As the material is durable, the local authority will save on future budgets knowing it will not need to be replaced for years to come.The total carbon saved was 14,250 Kg CO^2e.

Carbon Data

Product	Carbon Footprint Kg CO^2e/ tonne*	Average Surface Course Kg CO^2e/ tonne*	Carbon Benefit Kg CO^2e/ tonne	Carbon Benefit %
SteelPave	38.6	47.9	9.3	19.4%

*Value based on SteelPhalt verified EPD tool

SCRIM Data