

Project case study

NY Highways

Lower carbon asphalt solution for Pateley Bridge High Street

Product

CarbonLock biogenic asphalt, Tufflex SAMI and Tufflex D

Client

North Yorkshire Highways

Contractor

Heidelberg Materials Contracting



Overview

Heidelberg Materials UK has resurfaced the High Street in Pateley Bridge using a lower carbon asphalt solution, with a stress absorbing membrane interlayer (SAMI) and high skid resistance. The work was carried out as part of the company's highway framework agreement with North Yorkshire Highways.

Project description

Heidelberg Materials UK will supply around 35,000 tonnes of asphalt to North Yorkshire Highways as part of a 12-month highway framework contract secured following a competitive tender process.

The material will be used to maintain and improve the road network in the county and the first project carried out under the new agreement was the resurfacing of the High Street in Pateley Bridge.

Here, Heidelberg Materials used a lower carbon asphalt solution that includes its CarbonLock biogenic asphalt and locally sourced aggregate from its Coldstone quarry. The asphalt was produced and supplied from its Pateley Bridge asphalt plant, located on the quarry site, just three miles from the High Street.

"The project was technically challenging as cobbles lie under the asphalt in some areas and the High Street has a very steep gradient," said James Playford, Area Director Aggregates, Asphalt and Recycling at Heidelberg Materials UK.

"As a result of the reduced planning depth, the binder course included our Tufflex stress absorbing membrane interlayer (SAMI) solution, to optimise durability. And, to provide the high skid resistance specified, the Tufflex D surface course included aggregates with a PSV (polished stone value) of 68."



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Their support and collaborative approach throughout the process helped ensure the project was delivered successfully”

James Cox, Head of Commercial at North Yorkshire Highways

The work was carried out at night to minimise disruption and both the binder and surface course Tufflex asphalts include CarbonLock, which contains biogenic material within the binder that absorb and store CO₂ from the atmosphere during their life. This CO₂ is permanently ‘locked’ into the asphalt, even when it’s recycled at the end of its life, reducing the carbon footprint of the asphalt.

“North Yorkshire Highways was keen for us to supply the asphalt from our Pateley Bridge plant due to its proximity to the project site,” explained Ian Farley, Asphalt Territory Sales Manager.

“As the plant is within an Area of Outstanding Natural Beauty (AONB), we sought approval from North Yorkshire Council to supply at night, outside of our usual permissive hours, rather than from our Leeds asphalt plant, 29 miles away.”

James Cox, Head of Commercial at North Yorkshire Highways, added: “Working closely with Heidelberg Materials UK throughout the development of the specification enabled us to explore a range of material options and identify a solution that met the technical requirements of the scheme. Their support and collaborative approach throughout the process helped ensure the project was delivered successfully.”



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Heidelberg Materials offers a wide range of sustainable asphalt solutions. To explore which is best your project, contact:

Lower carbon asphalt solutions