



Proven performance

Tarmac and Nottinghamshire County Council help to set recycling record for the reuse of construction materials

Recycled materials used in road maintenance works across Nottinghamshire

The Challenge

Nottinghamshire County Council and Via East Midlands are forward thinking and innovative in their delivery of network maintenance across Nottinghamshire. In support of recycling objectives, Tarmac Highway Services was challenged to trial rubber modified asphalts in capital renewal works with the long-term objective of finding a useful way of disposing of old tyres.

The Solution

Two trials were completed using the new rubber material which offers the potential to recycle up to 500 tyres per kilometre of road, depending on layer thickness.

Results and Benefits

Nottinghamshire became one of the first local authorities in the country to adopt the revolutionary new asphalt incorporating rubber from recycled waste tyres, manufactured at warm mix to reduce carbon emissions.

Tom Randall MP said: "The UK has an outstanding track record in the use of recycled construction materials and I've been delighted to have had the opportunity to congratulate the team at Tarmac for their contribution to the country's European-leading status in this area. Our highways are the backbone of our regional economy and it's been fantastic to learn about all of the innovation that goes into manufacturing these locally produced construction materials that have strong sustainability credentials."

Additional information

Nottinghamshire County Council, Via East Midlands and Tarmac Highway Services work collaboratively in the management of the network assets to deliver sustainable construction solutions across programmed works. Trialing innovative, energy saving and durable materials in support of more sustainable outcomes.

Rubber Modified Asphalt enables old tyres to be converted into new roads and footpaths. As a result, they help to offset the environmental impact of highways maintenance activities and send out a strong local sustainability message.

Rubber modified asphalts also incorporate ULTILOW warm mix asphalt technology as standard. These warm mix asphalts are manufactured and laid at lower temperatures than conventional hot mix, resulting in lower CO₂ emissions during production and less energy use. Materials used on the project included up to 30 per cent recycled content and were supplied from Tarmac's Mountsorrel site in Leicestershire.