

# PROVEN PERFORMANCE

*Regional closed loop asphalt recycling,  
Northumberland County Council  
The ultimate in high performance pavement solutions*

**PAVEMENT SOLUTIONS**

**Product** ULTIFOAM

**Client** NORTHUMBERLAND COUNTY COUNCIL

**Contractor** TARMAC CONTRACTING

**Location** NORTHUMBERLAND

**Completion** OCTOBER 2015

# PAVEMENT SOLUTIONS

*The ultimate in high performance pavement solutions*

## CHALLENGE

Local road resurfacing activity in Northumberland had generated around 3000 tonnes of asphalt planings contaminated with coal tar. Since coal tar is classed as a hazardous waste, disposal would have been very costly at over £100 per tonne. The Council's sustainability policy encouraged waste reduction and recycling wherever possible to reduce their environmental impact. These arisings needed to be reprocessed for use in a number of schemes across the region. The material requirements for each scheme were different, so the process needed to be flexible and highly controlled with varied recycled content and ratios of course to fine aggregate.

## OUR SOLUTION

Our ULTIFOAM recycled asphalt recycling system was recommended, to enable the tar bound road arisings to be recycled locally and used on local road schemes as a replacement for hotmix asphalt. ULTIFOAM uses proven foamed bitumen and coldpaving technology in an EA permitted system for encapsulating RAP with coal tar. In a highly controlled process, the arisings are crushed and screened before being combined with additional aggregate, foamed bitumen and hydraulic binder. This results in a safe, consistent paving product that can be designed to meet local specifications.

## RESULTS AND BENEFITS

Following extensive discussions with the local authority client, the asphalt planings were reprocessed using our mobile KMA plant at the local Tarmac quarry at Barrasford. The mix design had to be carefully calculated for each scheme to make sure that the finished material complied with specification requirements. Using ULTIFOAM provided a closed loop regional recycling process and meant that no arisings were sent to landfill. It generated a major savings in disposal costs, allowing limited council budget to be used elsewhere. By reducing the carbon footprint of highways maintenance activity and the requirement for primary aggregate it also contributed to the Council's sustainability objectives.

For more details contact your [enquiries@tarmac.com](mailto:enquiries@tarmac.com) or call **0800 1 218 218**

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