Acting on Climate
#LHLowCarbonTransition

Low Temperature Asphalt: Reducing the Carbon Footprint of Road Construction

What is the challenge?

With the UK becoming the first ever country to legally commit to cutting greenhouse gas (GHG) emissions to 'net zero' by 2050, our industry is under increasing pressure to use sustainable materials in road construction.

How can we help contractors meet their low-carbon objectives?

Key figures

- Lower carbon footprint than traditional asphalt
- Mixed at 20°C-40°C lower than hot mix asphalt
- Targeted increase of recycled content in all Superlow material

Our solution

Specially formulated for use on highways and road infrastructure schemes, LafargeHolcim's subsidiary in the UK, Aggregate Industries, launched Superlow, a low temperature asphalt enabling quicker, more environmentally-friendly project completion. This range of asphalt is mixed at 20°C-40°C lower than hot mix asphalt.

As it requires less energy to manufacture than conventional asphalt, Superlow ensures a lower carbon footprint. Another environmentally friendly benefit of Superlow is that the manufacturing process includes an increased amount of Recycled Asphalt Pavement (RAP) content compared to equivalent hot mixes.

Also, as this product reaches trafficking temperatures quicker than conventional hot asphalt, it enables earlier reopening of carriageways to the travelling public, resulting in less road occupation, less traffic disruption and reduced build cost. In addition, it is longer lasting, as lower asphalt temperatures during production reduces binder ageing and enhances in service life expectancy.

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