

Asphalt – sustainable solutions

era®

era 140 is our warm mix asphalt option. It can cut scope 1 CO₂ emissions by up to 15% compared with hot mix asphalt and, importantly, can be used to produce a number of different products with recycled or secondary aggregates. era 140 offers increased durability, enhancing these savings.

era 100 is our half warm mix asphalt option offering carbon reductions of up to 50%.

CleanAir®

CleanAir helps to minimise the impact of asphalt production and laying on local air quality by reducing the emissions of specific gases and particulate matter from asphalt mixes. This is particularly beneficial for ultra-low emission zones and areas of confined spaces such as tunnels.

CleanAir can reduce emissions of nitrogen oxides, sulphur dioxide, volatile organic compounds (VOCs) and particulates by up to 40% compared with conventional hot mix asphalt.

CarbonLock®

CarbonLock asphalt contains biogenic material within the binder, which absorbed and stored atmospheric CO₂ during its formation. This CO₂ is 'locked' into the material for its entire service life, even when planed and recycled.

CarbonLock can be produced using our era 140 warm mix process, which allows the asphalt to be manufactured at a lower temperature.

As a result, CarbonLock provides at least a 25% reduction in scope 3 carbon emissions compared with standard hot mix asphalt.

AgeLast®

AgeLast asphalts contain an additive that reduces the rate of bitumen ageing to delay the onset of embrittlement and prolong the life of asphalt surfacing. This reduces the need for intervention and associated carbon emissions.

AgeLast materials can be produced using our era 140 warm mix process, reducing the CO₂ emissions associated with production, compared with traditional hot mix asphalt.

RecyclePlast®

Our RecyclePlast asphalt contains additives derived from waste plastics. It can also be produced at lower temperatures using our era 140 warm mix process.

The chemically modified waste plastic in RecyclePlast is compatible with bitumen without compromising performance. RecyclePlast provides a beneficial use for plastic at the end of its life rather than it going to landfill. RecyclePlast can also be recycled back into new asphalt at the end of its life.

RAP

Asphalt is 100% recyclable and can be incorporated back into new asphalt at the end of its service life.

Using recycled asphalt plantings (RAP) in the production process reduces the use of primary aggregates and bitumen, preserving natural resources for future generations.

The addition of RAP fully supports the circular economy and significantly reduces the carbon emissions associated with the production of asphalt.