



Era[®] 140

A low carbon, warm mix asphalt solution

heidelbergmaterials.co.uk/era





Reduced temperature performance

Era 140 is a warm mix asphalt solution engineered to reduce CO₂ emission through lower production temperatures and enhance efficiency while supporting improved health and safety for contractors. By incorporating a specialist bitumen that enables manufacturing at significantly reduced temperatures, it helps cut the carbon footprint of asphalt production by up to 15 per cent.

Era 140 technology can be applied to the majority of our asphalt products, including our range of CC202 or CC205/clause 942 thin surface course materials. The use of WMAs is encouraged as standard by National Highways.

Benefits

- Carbon reduction: typically up to 15% reduction in asphalt production emissions, resulting in an average 2.4kg CO₂e saving per tonne of asphalt, compared with standard hot mix asphalt.
- Faster completion of resurfacing work, increasing efficiency and resulting in less disruption for road users.
- Improved workability.
- Reduction in thermal ageing process.
- Enhances durability due to reduced oxidation during manufacture.

- Allows recycled content.
- Improves health and safety for work force: less fumes and steam are created, improving air quality and visibility; risk of burns lessened.
- Can be used to produce the majority of Heidelberg Materials asphalt products.
- 100% recyclable.
- Laid using conventional asphalt paving equipment.
- Available from Heidelberg Materials asphalt plants across the country.
- Technical advice and support service available.

Applications

- Motorways and major roads
- Local authority roads
- Car parks
- Footways
- Runways

The smart approach to sustainable asphalt

A warm mix asphalt (WMA) solution designed to reduce carbon emissions, improve efficiencies, reduce disruption and improve contractor health and safety.

Heidelberg Materials Era 140 WMA incorporates a specialist bitumen that allows asphalt to be produced at a reduced temperature (up to 40 degrees lower) than conventional hot mix asphalt. This uses less energy, helping to cut the CO₂ emissions associated with asphalt production by up to 15 per cent.

In addition, the lower temperature means less fumes and steam, providing a safer working environment for contractors.

The sustainability benefits of Era 140 can be enhanced even further with the incorporation of recycled material within the mix, supporting the circular economy.

Using Era 140 saves time as the reduced temperature of the asphalt allows multiple layers to be laid during the same shift. This also allows roads to reopen to traffic quicker without the risk of deformation, minimising disruption for road users.

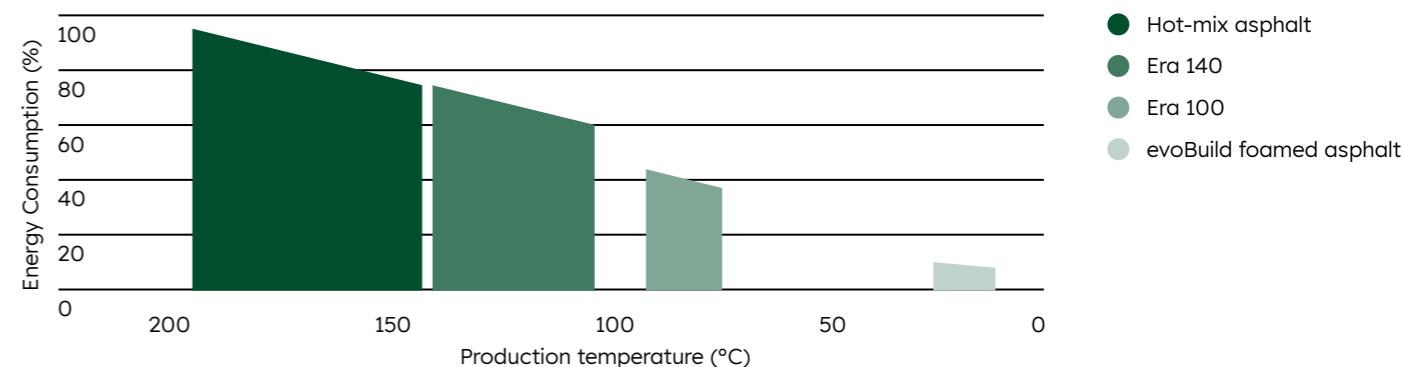
Era 140 technical specification

Trial results for Heidelberg Materials' Era AC20 Dense Bin 40/60 tested to the Specification for Highways Works CC202 or CC205/clause 942

Characteristic	Result	Specification
Maximum density (kg/m ³)	2508	-
Air void content (mean of 6)	2.2	0.5 - 7.0%
Indirect tensile stiffness module (ITSM) MPa	8473	1800
Wheel tracking to BS EN 12697-22		
Wheel tracking rut rate @ 60°C	2.2%	< 5mm/hr
Wheel tracking rut depth @ 60°C	4.4	< 7mm
Wheel tracking to BS EN 12697-22 (procedure B)		
Mean wheel tracking slope (WTS air)	0.05	< 0.8
Mean proportional rut depth (PDR air) @ 10,000 cycles	4.3	-

Energy consumption/production temperature

Dramatically reducing energy consumption



Specification of Highway Works change translator tool

Our Specification of Highway Works (SHW) change translator tool makes it simple to navigate the recent changes to asphalt specifications.

The easy-to-use tool provides a quick and reliable way to cross-reference legacy SHW clauses with the new pavement related sections, recently updated by National Highways.

Explore the translator tool here:



Case Studies

National Highways Areas 6 & 8

We supplied 22,000 tonnes of Era 140 warm mix asphalt (WMA) across National Highways Areas 6 and 8 as part of the Asset Community East partnership, supporting safer, more efficient maintenance delivery. Using WMA cut carbon emissions by 2kg per tonne and saved around

40,000 tonnes of CO₂, the equivalent of removing more than 20,000 vehicles from the road each year. The approach has been recognised within the ACE Better Together Awards and reinforces our commitment to delivering lower carbon, longer lasting road surfaces.



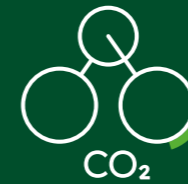
22,000 tonnes of Era WMA have been supplied to eight schemes



Dorset Highways Strategic Partnership

Successful trials through the Dorset Highways Strategic Partnership led to the adoption of our Era 140 warm mix asphalt across the county's network, following 18 months of monitored performance with no deterioration. Since 2020, Dorset has used 21,639 tonnes of Era 140

across base, binder and surface courses, reducing CO₂ emissions by around 52 tonnes. Continued strong results mean Era 140 is now the default choice for surface courses, including polymer modified Tufflex mixes.



CO₂ emissions reduced by around 52 tonnes



You can see more case studies at:

heidelbergmaterials.co.uk/sector-case-studies



Heidelberg Materials Asphalt

A national business with a local focus.

Region	Telephone	Email address
North East	0330 123 0760	asphaltnortheast@uk.heidelbergmaterials.com
North West	0330 123 0761	asphaltnorthwest@uk.heidelbergmaterials.com
Central – delivered by partners, MQP	0330 123 2061	sales@mqp.co.uk
South West	0330 123 0763	asphaltsouthwest@uk.heidelbergmaterials.com
South Wales	0330 123 0764	asphaltsouthwales@uk.heidelbergmaterials.com
South East	0330 123 4722	asphaltsoutheast@uk.heidelbergmaterials.com

heidelbergmaterials.co.uk

Heidelberg Materials Asphalt

Heidelberg Materials operates more than 30 asphalt plants across the UK. This extensive network including 9 MQP plants, enables us to provide consistent product quality, reliable delivery and local expertise to meet the needs of construction projects of all sizes.

Scan the QR code below to search for your nearest Heidelberg Materials concrete plant.



Asphalt Collect & Go

Our Collect & Go service gives you fast, priority access to quality assured asphalt, helping you get back to site without delay. We offer convenient collect only time slots, essential trade tools on site and a simple loyalty scheme that rewards you every time you visit.

Scan the QR code below to download the Asphalt Collect & Go app



Who we are

Heidelberg Materials is one of the world's largest integrated manufacturers of building materials.

Heidelberg Materials is one of the UK's largest suppliers of high quality asphalt, operating a national network of 30+ plants to support projects of every scale. We produce a wide range of asphalt solutions – from high performance and permeable products to warm mix and specialist ranges – designed to meet the demands of highways, infrastructure and local repair works.

We have a strong record of delivering innovative asphalt technologies, including industry leading lower-carbon options and hydrogen fuelled production. Our teams support everything from major national highways schemes to routine road maintenance and small local reinstatements.

As a leading UK building materials supplier, we continue to drive the transition to lower carbon construction and are committed to reducing CO₂ emissions across our full asphalt range.



*Ground Granulated Blastfurnace Slag.

Heidelberg Materials UK is a leading supplier of heavy building materials to the construction industry

We are part of Heidelberg Materials, one of the world's largest integrated manufacturers of building materials and solutions with leading market positions in cement, aggregates, and ready-mixed concrete. In the UK, the company is split into five business lines – aggregates (crushed rock, sand and gravel), concrete, asphalt and contracting, cement and recycling – which together operate around 280 manufacturing and distribution sites and employ more than 3,500 people.

For detailed information on all areas of Heidelberg Materials UK and our products visit [heidelbergmaterials.co.uk](https://www.heidelbergmaterials.co.uk)

Bulk cement

- evoBuild low carbon GGBS
- CEM I / II A-LL / III
- White
- NHL 5

Aggregates

- Sand and gravel
- Crushed rock
- Bulk decorative aggregates
- Agricultural lime
- Rock armour
- Silica sand

Asphalt

- Era – low temperature asphalt
- CleanAir
- evoBuild foamed asphalt
- CarbonLock
- AgeLast
- RecyclePlast

Concrete

- evoBuild low carbon concrete
- ColourCrete – coloured concrete
- DuraCrete – high strength concrete
- EasyFill – foamed concrete
- EasyFlow – self compacting concrete
- EasyFlow Screed C – pumpable screed
- EasyPile – piling concrete

- FastTrack – early strength
- FibreCrete – fibre reinforced concrete
- PowerCrete – heat conducting concrete
- Lightweight concrete
- Sprayed concrete
- Waterproof concrete
- Farm range concretes
- Home range concretes
- Power range concretes

Contracting

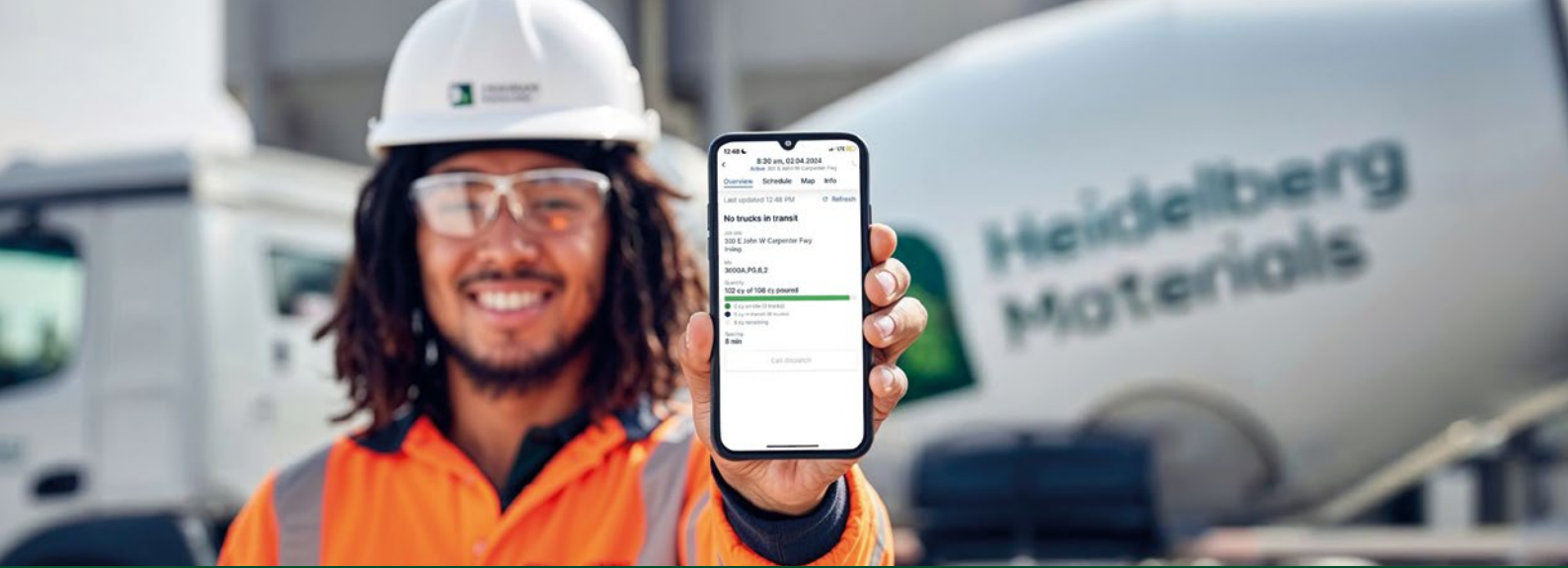
- Highway maintenance
- Road surfacing/construction projects

Packed products

- Cement
- Low carbon cement
- Ready-to-use mortar
- Ready-to-use concrete
- Asphalt
- Construction aggregates
- Decorative aggregates
- Sands
- Rock salt

Recycling

- Haulage
- Aggregates



Monitor orders and track deliveries with **OnSite**

Our app for tracking and viewing Heidelberg Materials orders and deliveries. It's loads smarter.

OnSite simplifies access to real time information and tracking, making it easier to oversee your orders and deliveries. Stay ahead with real time updates on delivery time and progress and effortlessly track and manage deliveries using time stamps for loading, arrival time on site and time left.

With new features regularly added, like live chat, you can focus on the project in hand.

Learn more:

heidelbergmaterials.co.uk/onsite

Download OnSite:



Take control of your account with **Hub**

Our customer portal is designed with you in mind.

Hub is your gateway to seamless communication and control. Access invoices, delivery tickets, request quotes, and place orders – all in one place, at the click of a button.

Learn more:

heidelbergmaterials.co.uk/hub

Access Hub:

hub.heidelbergmaterials.co.uk

