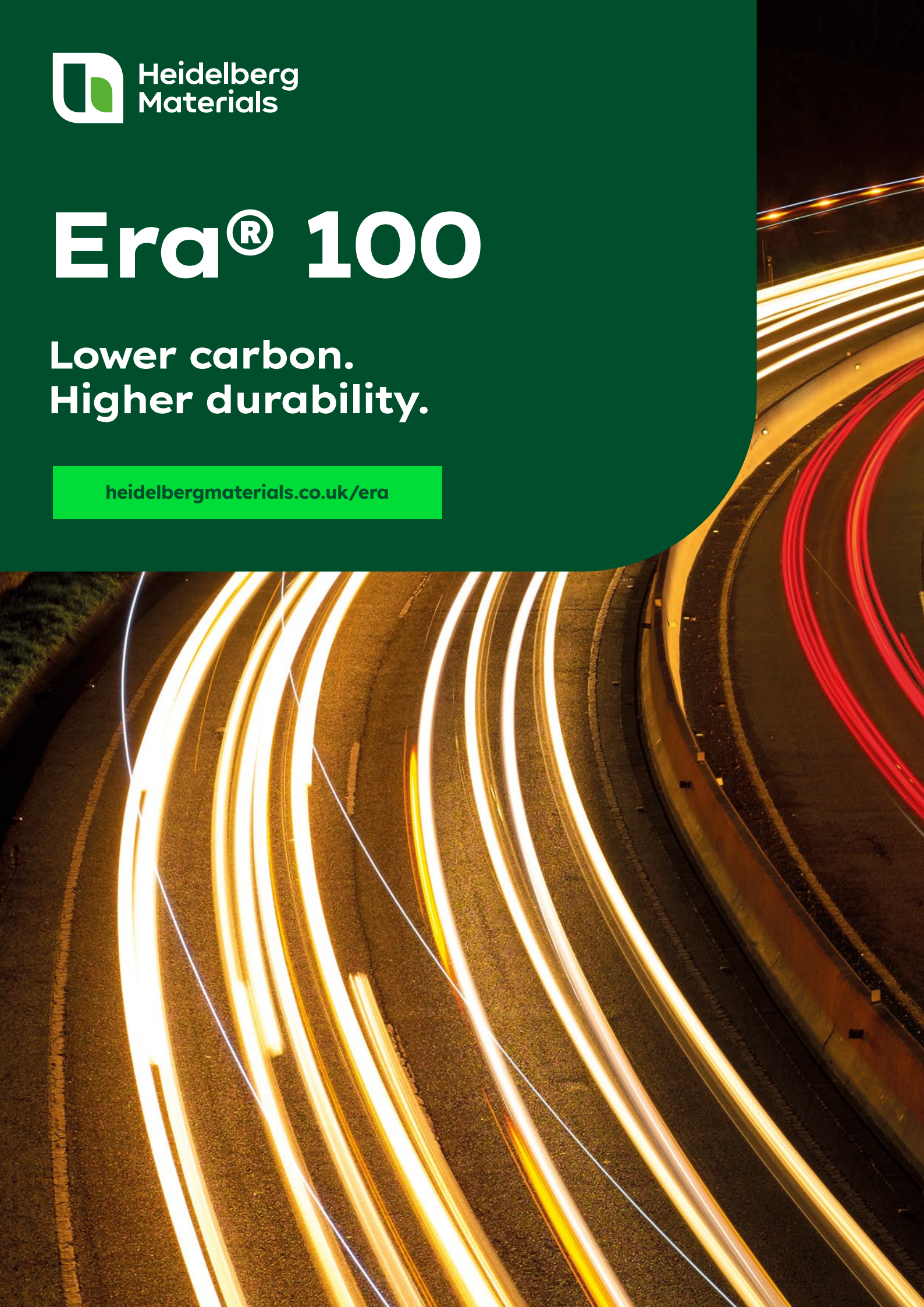




Era[®] 100

**Lower carbon.
Higher durability.**

heidelbergmaterials.co.uk/era





Today's greener asphalt

Era 100 is the new energy reducing asphalt from Heidelberg Materials UK, which takes asphalt technology into a new age.

The micro-foaming production process of Heidelberg Materials' Era 100 reduces the level of carbon emissions associated with asphalt production for road laying by up to 50 per cent, while enhancing durability and improving health and safety for contractors.

The Heidelberg Materials' Era 100 production process allows a wide range of Heidelberg Materials base, binder and surface course asphalts to be produced at a temperature of 80-95°C – giving a reduction in carbon emissions of up to 50 per cent compared with equivalent hot-mix materials.

It can also use up to 50 per cent recycled content, while the asphalt itself is 100 per cent recyclable, producing a greener asphalt to help meet the environment targets of today's road building projects.

The impressive temperature reduction results in no loss of performance. In fact, material produced this way can be more durable than traditional hot-mix materials.

This is because the reduced production temperatures result in the retention of many of the more volatile bitumen fractions which are lost during traditional hot-mix asphalt (HMA) manufacture.

This means that the binder retains much of its flexibility and reduces binder ageing.

As well as the increased sustainability credentials, the lower temperature of Era 100 allows faster completion of resurfacing works, minimising time on site for contractors and disruption for motorists.

The material is laid by conventional asphalt paving equipment, and we offer a full production and installation service using our Heidelberg Materials' Contracting team.

Heidelberg Materials' Era 100 products have good compaction and workability and provide a more comfortable laying environment for contractors due to the lower temperature and reduced steam.

Benefits

- 50% less CO₂
- Up to 50% recycled content
- Faster completion of resurfacing work
- Reduced binder ageing
- Enhanced durability
- Available from selected plants nationally
- Improved health & safety

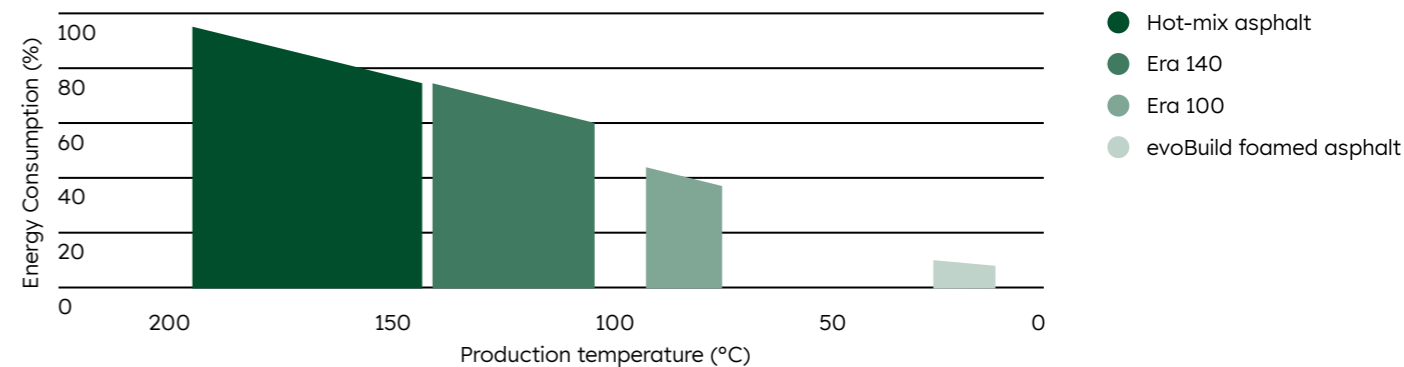
Era 100 technical specification

Trial results for Heidelberg Materials' Era 100 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)	2561	-
Air void content (mean of 6)	3.7%	0.5 – 7.0%
Indirect tensile stiffness module (ITSM) MPa	3002	> 1800
Wheel tracking to BS EN 12697-22		
Wheel tracking rut rate @ 60°C	3.6	< 5mm/hr
Wheel tracking rut depth @ 60°C	3.9	< 7mm
Wheel tracking to BS EN 12697-22 (procedure B)		
Mean wheel tracking slope (WTS air)	0.33	-
Mean proportional rut depth (PDR air) @ 10,000 cycles	7.76%	-

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:



Continuing to take asphalt into a new age



Case Study

Heidelberg Materials and Newport City Council

The Heidelberg Materials' Era 100 production process can help local authorities reduce waste and carbon emissions and meet sustainability targets. Newport City Council has become one of the first to use it to resurface a heavily trafficked bus route.

The project involved producing, transporting and laying 110 tonnes of AC 20mm HDM binder course, manufactured at Heidelberg Materials' local Penderyn plant, using the Era 100 production process. The Contracting team was impressed by the material's compaction and workability characteristics as well as the speed of laying, as the reduced temperature meant that it required less cooling time between courses. Andrew Morris, chief highway engineer at Newport City Council, said: "Using Heidelberg Materials' Era 100 allowed the site to be planed out, resurfaced and reopened to traffic within a very short window of time.

"Testing has shown that the resistance to deformation is equivalent to standard hot-mix asphalt. Heidelberg Materials' Era 100 has to be where the asphalt industry is going in the coming years. We believe that adopting this new surface technology will help us meet our sustainability targets while providing durable, longer lasting roads for our community."

The 110 tonnes of asphalt used in Newport contained 20 per cent recycled material and was produced at a temperature of 95°C. This reduced carbon emissions by 1200 kilos compared with standard hot-mix, which is the equivalent of driving 8900km in a standard family saloon car – about the distance from London to Los Angeles.

“

Heidelberg Materials' Era 100 has to be where the asphalt industry is going in the coming years.”

Andrew Morris, Newport City Council

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.

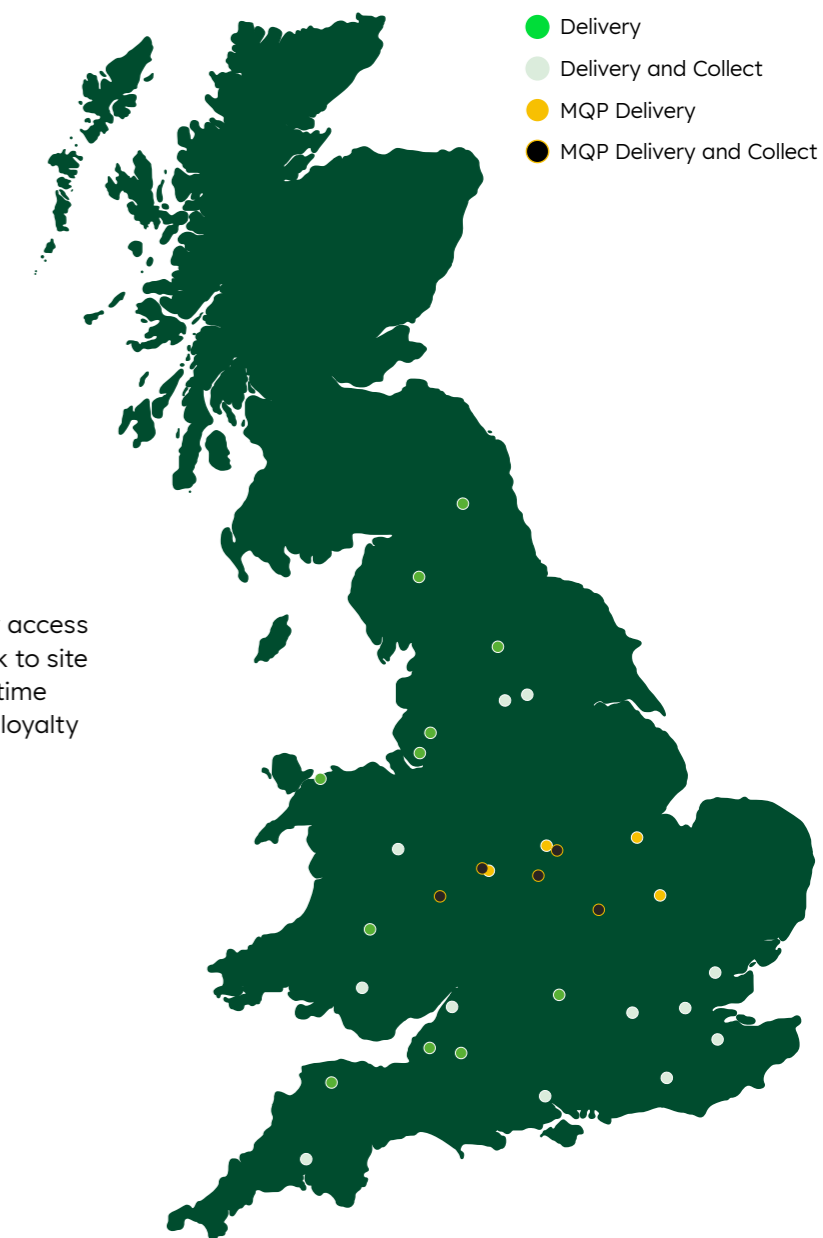
Scan the QR code below to search for your nearest Heidelberg Materials concrete plant.



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

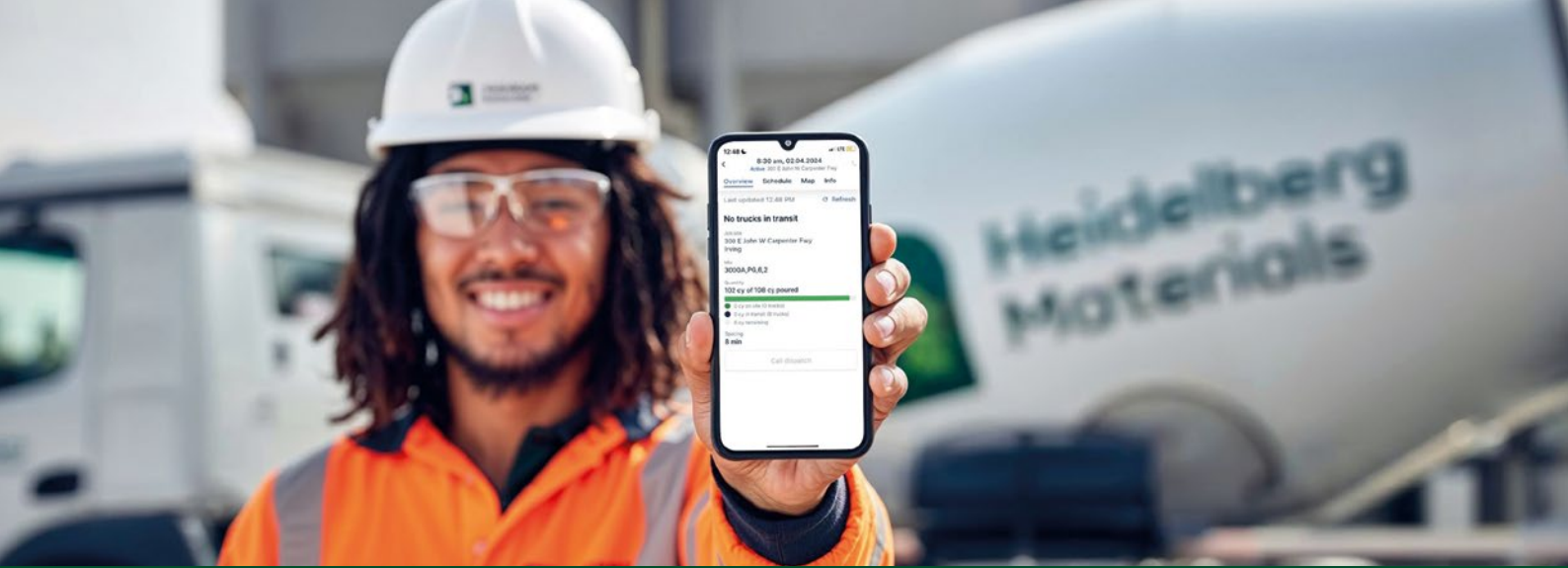
- Highway maintenance
- Road surfacing/construction projects

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

