



SUPERLOW-CARBON

THE ROAD TO A GREENER FUTURE

OUR COMMITMENT

United in our vision to be the global leader in innovative and sustainable building solutions, we play an essential role in accelerating our world's transition towards a net zero. Driven by our purpose to **build progress for people and the planet**, we are at the forefront of green asphalt solutions.

SUPERLOW-CARBON: AN EVOLUTION IN ASPHALT

The development of our SuperLow range, which supports our shared journey to reduce carbon in our industry, never stands still.

With the help of Shell Bitumen, Aggregate Industries has developed **SuperLow-Carbon; the innovative next step on the carbon reduction journey.**





HOW DID WE DO IT?

The evolution began by reducing the embodied carbon footprint of our asphalts: improving production processes, using alternative energy sources, and mixing at reduced temperatures. In SuperLow-Carbon, we have gone even further, including a biogenic material within the bitumen that effectively locks carbon within the asphalt rather than releasing it back into the atmosphere.

The use of these biogenic components in SuperLow-Carbon means that CO₂ remains within the asphalt even when it is recycled, creating a carbon sink.

WHAT DO WE MEAN BY CARBON SINK?

A carbon sink is anything that absorbs and stores more carbon from the atmosphere than it releases. Examples of this are plants, the ocean and soil.

SuperLow-Carbon acts in a similar way to each of these, effectively capturing carbon and storing it in our roads and preventing it from being re-released into the atmosphere.

WHAT IS BIOGENIC MATERIAL?

Biogenic material is material made by living forms such as plants, trees, crops and other such vegetation.

These living organisms absorb carbon dioxide from the atmosphere and through their lifecycle store it. The biogenic material is harvested and used in the bitumen before it has a chance to release the stored CO₂ back into the atmosphere.



WHY GO SUPERLOW-CARBON?

REDUCED CARBON FOOTPRINT

SuperLow-Carbon asphalt requires less energy to manufacture than conventional asphalt, giving a lower carbon footprint.

SAFER

Lower asphalt temperatures, reduce nuisance fuming, odour and steam at the project site, reduce burn risk, improve visibility, and provide better working conditions for operatives.

LONGER LASTING

Lower asphalt temperatures during production reduce binder ageing and enhance in-service life expectancy.

HIGH QUALITY

Even at lower temperatures, SuperLow-Carbon asphalt remains highly compactable for longer than the hot mix equivalent, allowing more time for full compaction and delivering enhanced performance and durability.

SAVES TIME

SuperLow-Carbon asphalt reaches trafficking temperatures quicker than conventional hot asphalt, enabling earlier reopening of carriageways to the travelling public, resulting in less traffic disruption and reduced build cost.

UP TO  TONNES OF CO₂ BOUND BETWEEN EACH KM OF PAVEMENT



CARBON OFFSETTING & CALCULATIONS

We're here to support you with your carbon calculation and offsetting needs. We do this through our partner, Circular Ecology who have a strong background in the construction industry, providing resource efficiency services.



**IF YOU WOULD LIKE TO SPEAK TO ONE OF OUR
SALES REPRESENTATIVES PLEASE CONTACT:**



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Visit www.aggregate.com/superlowcarbon for more information.

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