



Innovation HALO: Driving Sustainability with Low Carbon and Recycled Materials

What is HALO?

HALO is a sustainable alternative to conventional asphalts. This market-leading environmental innovation from Huyton Asphalt is a low temperature base and binder containing recycled materials revolutionising the surfacing industry by creating a carbon-friendly product that offers exceptional performance.

Benefits of HALO



**Innovative
Eco Technology**



**High Quality,
Greater Sustainability**



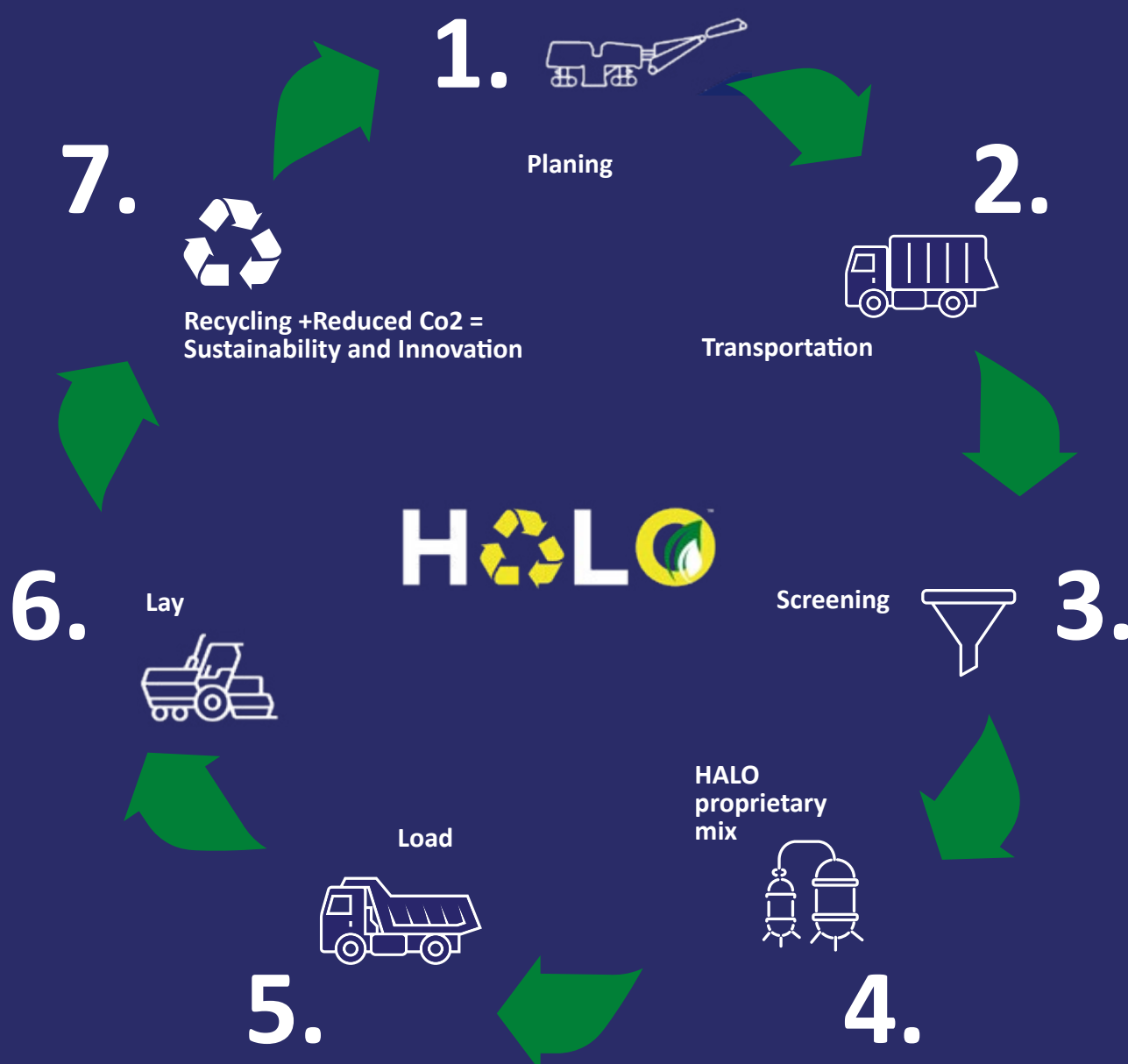
**Drives
Regeneration**



**Lower
Carbon Footprint**

Our Lifecycle

The Innovation HALO lifecycle is simple, yet highly effective. We're continually reviewing and adapting our processes to ensure that Huyton Asphalt is maximising as many opportunities as possible to deliver a sustainable alternative to traditional surfacing methods.



1. Our Mission

To drive innovation as standard and accelerate awareness of the importance of sustainability and environmental responsibility within the construction industry.

2. Our Vision

Our vision is for HALO to be laid on all roads in a UK-wide commitment to improved sustainability and carbon reduction.

3. Our Impact



Over
500,000t
Of HALO laid



Over
14,000t
RubberPave laid and
tires repurposed



Over
50,000t
HAFLOW



Over
2,000t
Of HALOBIO laid



56%
Carbon reduction
from 2019 baseline



100%
Recycled planings



Up to
35%
RAP

Achievements / Awards

As an award-winning business, Huyton Asphalt is at the forefront of sustainable construction. Our innovative approach and commitment to environmental responsibility has been recognised with industry-leading awards, including:

CIHT

Project of the Year
(Value greater than
£5 Million)

Highways Awards

Active Travel Scheme
(2023)

The High Sheriff of Merseyside

Valuable Services to the
Community (2023)

YM Property & Business Awards

Innovation (2023)

Highways Awards

Excellence in delivering
environmental sustainability
(2024)

Employers Excellence Awards

Innovation Employer
of the Year (2024)

ICE North West

Innovation Employer
of the Year (2024)



Did you know? More than 40 million waste tyres are generated in the UK every year...

More than 40m waste tyres are generated in the UK each year. HALO's rubber modified asphalts incorporates recycled tyres our warm mix asphalt technology to provide a carbon saving of up to 8%. Converting old tyres into new roads and footpaths, helps to offset the environmental impact of highways maintenance activities and contributes to the local sustainability drive.

Rubber modified asphalts incorporate the rubber from one tyre per tonne of asphalt which is the equivalent of 500 tyres per kilometre of road.

Recycling: Putting back what we take out:

RAP reduces the need for importing virgin stone by using existing roads as our sustainable quarry. Stone aggregate is a finite resource and we have a sustainable solution and a lifecycle approach to better roads.



**Reclaimed Asphalt
Pavement (RAP)**



**Old Perished
Roads**



**End of life
tyres**



Innovation HALO Overview



Warm mix asphalts are manufactured and supplied at lower temperatures than conventional hot mix asphalts. As a result, they offer significant reductions in carbon dioxide emissions of up to 15%.

They also deliver a range of site safety and productivity benefits and no compromise on performance. Designed to help complete more work in less time, keep busy roads moving and meet the highest standards of safety and sustainability.



UK INDUSTRY FIRST

FastPave is a single-layer application process for urban roads, negating the need for the conventional binder and surface course approach, reducing construction time and material consumption accordingly. Single layer construction improves compaction and reduces the in-situ voids in the finished layer, thereby improving long term durability. By combining Fast Pave with our HALOBIO product, we have successfully achieved an industry-first emissions reduction. Minimizing emissions but maximizing efficiency.



FIRST IN LIVERPOOL REGION

This innovative product is made from recycled tyres combined with HALO warm mix asphalt, resulting in 8% reduction in CO2 emissions in comparison to conventional hotmix materials. It has been used in the UK since 2013 and rubber modified asphalt uses upto 500 waste tyres per 1km of road. Therefore, this product is not only reducing carbon emissions and transport related emissions, it helps to reduce the numbers of tyres going to landfill, of which 1 in 4 of the 40 million waste tyres produced in the UK every year are likely to do.



Through HALOBIO, we can replace some of the fossil fuel derived binder with a biogenic or plant-based alternative. As well as having a lower carbon footprint during production, the biogenic asphalt binder technology effectively locks away carbon which has been absorbed during the growth of the biomass or plant-based element.

This effectively turns the new road surface into a carbon sink. It can capture and store around 6 tonnes of carbon dioxide equivalent per kilometre of road. And, since asphalt can be recycled at the end of the pavement life, most of this carbon will not re-enter the atmosphere but will instead be incorporated into another road.



HAFLOW™

A fast-draining porous asphalt solution for driveways, car parks, footpaths, public spaces and is suitable for both residential and commercial environments. HAFLOW combines excellent drainage characteristics with proven long term durability, that our Innovation HALO products are renowned for.

HAFLOW is a hard wearing porous asphalt product that eliminates the problem of surface water, whilst meeting relevant local planning requirements. Using advanced binder technology, and when used in conjunction with a specially designed porous binder course, HAFLOW provides effective drainage, whilst maintaining long term durability.

The road to a Sustainable, Low Carbon UK is laid with **HALO**

To work with us or for more information about HALO
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