

AGGREGATE INDUSTRIES

Asphalt

Superlasting™

Life®

24%* reduction in CO₂



Superlasting™ asphalt is a patented¹ sustainable micro foamed mix process that provides the engineering performance of hot mix asphalt yet is produced and laid at reduced temperatures thereby extending the predicted service life.

- Enhanced durability and service life through reduced binder ageing
- Achieves high stiffness earlier providing the opportunity for reduced construction times and therefore traffic congestion
- 24% reduction in the carbon footprint*
- Equivalent stiffness and permanent deformation to hot mix asphalt
- Good workability and compactability at reduced rolling temperatures
- Laid with conventional surfacing equipment and laying techniques
- Eliminates nuisance fumes
- Produced to BS EN Standard mix descriptions therefore no client departure required
- Can be manufactured as a base, binder or surface course and available with immediate effect
- CE marked.

Applications

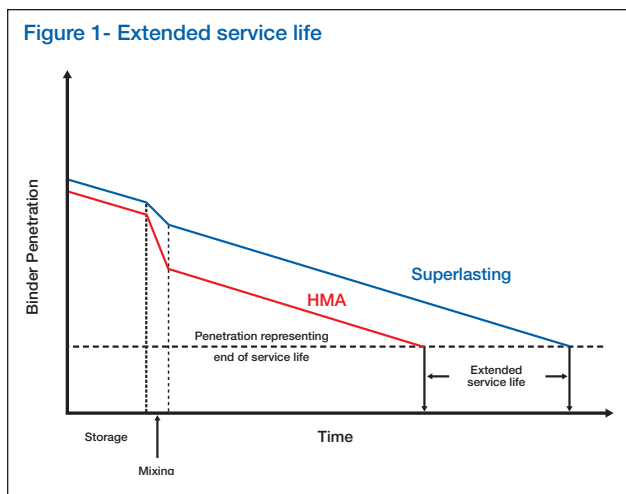
Can be used for all infrastructure and commercial asphaltic concrete projects.



Patent¹: patent number GB 2472995 granted on 11th Sept 2013.



Superlasting™ technical information



Extended service life

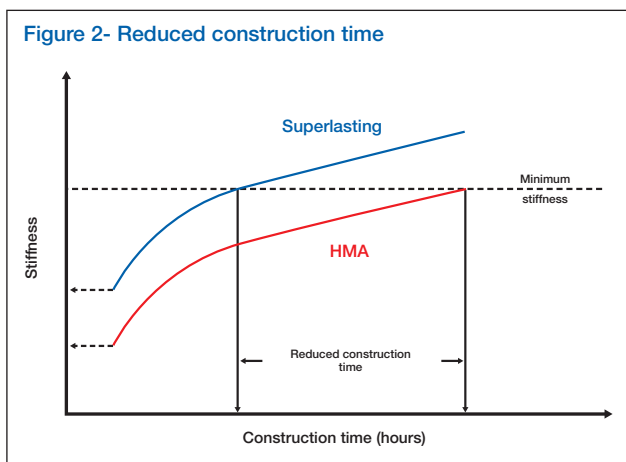
- Majority of ageing occurs in the manufacturing plant when asphalt is exposed to elevated temperatures in the presence of oxygen
- Lower mixing temperatures reduce oxidative hardening and bitumen ageing
- Reduced ageing at the point of manufacture extends the service life.

Enhanced durability

Ageing of binder

	40/60 pen (AC 20)		100/150 pen (AC 20)	
	Superlasting asphalt	Standard hot mix	Superlasting asphalt	Standard hot mix
Penetration (dmm)	46	37*	108	79
Softening point (°C)	52.6	55.0*	43.8	50.4

*Typical values



Reduced construction time

- Reaches overlay stiffness quicker
- Opportunity for shorter construction periods
- Reduced road construction occupation and associated traffic disruption.



Sustainability and local sourcing

Energy use: Aggregate Industries is at the forefront of sustainability and has committed to reduce carbon emissions by 20% by 2016 based on a 2012 base line.

Recyclable: 100% of the product can be recycled thus reducing the amount of material that is sent to landfill.

Manufacturing location: Produced in the UK, under strict environmental and social legislation.

Responsible sourcing: Aggregate Industries is the first UK company to achieve accreditation to the BES 6001 Framework Standard for the Responsible Sourcing of Construction Products. Aggregate Industries has achieved an 'Excellent' rating for major product groups. The BES 6001 standard assesses:

- quality management
- environmental management
- health and safety management
- a range of social and environmental issues.

Aggregate

Superlasting is available for most asphalt products using a range of standard aggregates. Any special requirements for aggregate properties can be accommodated through consultation.

Carbon footprint calculation

Measured against cradle to gate baseline figures across the sector using the asphalt pavement embodied carbon tool (asPECT) that provides a methodology to calculate the life cycle greenhouse gas emissions or 'carbon footprint' of asphalt used in highways.

The asPECT tool was produced as a result of a joint collaborative research initiative of the Highways Agency, Mineral Products Association, Refined Bitumen Association and TRL Limited. The project was further endorsed by the Waste & Resources Action Programme (WRAP) and Adept.

Availability

Currently, Superlasting is produced at selected Aggregate Industries asphalt plants but will be available at more locations as the programme develops. Please contact your local representative to establish the availability in your area.

Installation

Available either through Aggregate Industries Contracting Division or approved licensed contractors.

Manufacturing standard

All Aggregate Industries' products are manufactured in accordance with ISO 9001 and Highway Sector Scheme 14 with factory compliance to ISO 14001.

Policies

Aggregate Industries' policies on the environment and community, health and safety and sustainable solutions for different product applications can be viewed on our website www.aggregate.com

Patent¹

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Health and safety: COSHH data

Full COSHH data on asphalt products is available on request. Please call the technical helpline on 0844 557 8396.

CE Marking

For more information on CE marking please visit: www.aggregate.com/cemarking

Technical support

Detailed guidance and assistance with the preparation of specification and use of asphalt products is available through the sales office. A free technical service is also available.

For further information, please refer to our asphalt technical services on 0844 557 8396.