

FOAMIX

Leaders in low carbon, recycled
cold-lay asphalt solutions



FOAMIX™
Low Carbon Recycled Asphalt

FOAMIX Eco™
Carbon Neutral Asphalt

A MEMBER OF
HOLCIM

AGGREGATE
INDUSTRIES

OUR COMMITMENT

Aggregate Industries is committed to developing innovative low carbon pavement solutions to assist in the immediate and sustained action that will lead to the desired decarbonisation of the UK's roads network. We are changing the way we construct by deploying the latest, high quality, material solutions and technical innovations to reduce carbon year-on-year across all our operations on our journey to Net Zero carbon.

Driven by our purpose to build progress for people and the planet, we are driving the circular economy with green pavement solutions such as Foamix and Foamix Eco that offer **a reduced reliance on expensive and finite virgin aggregate and/or asphalt products** to make the most of taxpayer money and typically deliver **c.45% carbon reduction** in Foamix or carbon neutral status if Foamix Eco is chosen.

WHAT IS FOAMIX ASPHALT?

Foamix is a foamed asphalt commonly used in pavement construction. Manufactured as a cold mix, it contains a high recycled asphalt content resulting in a low manufacturing carbon footprint. It is manufactured to a high level of control and incorporates **up to 92% recycled materials** (reclaimed asphalt plantings (RAP), plus bitumen, cement and water.

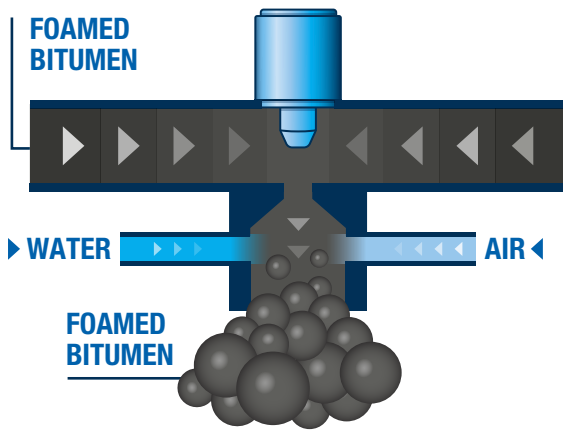
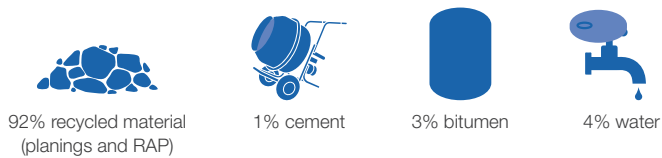
Using our fleet of OCL Regeneration mobile mixing plants and Sitebatch Technologies, Foamix and Foamix Eco offer a cost-effective, sustainable solution to our customers for the construction, repair and maintenance of new or existing pavements whilst maximising the use of locally sourced recycled materials. It is laid and compacted like normal asphalt (only cold), without the need for any specialist paver or labour.

“DRIVEN BY OUR PURPOSE TO BUILD PROGRESS FOR PEOPLE AND THE PLANET, WE ARE DRIVING THE CIRCULAR ECONOMY WITH SOLUTIONS SUCH AS FOAMIX AND FOAMIX ECO”



HOW FOAMIX IS MADE

FOAMIX COMPRISES OF



Waste streams that are viable for recycled product manufacture include:

- ▶ Excavated road and footpath subbase layers
- ▶ Crushed concrete, flags, edgings & kerbs
- ▶ Excavated HBM/CBGM
- ▶ Non-hazardous planings
- ▶ Asphalt planings
- ▶ Tar-bound planings

DESIGN STANDARDS

Like for like, Foamix long-term stiffness equates to that of normal asphalts.

Table 7.2 TRL 611 SHW 948 & CD226 (HD26/06)

FOAMIX			
FOAMIX Grade	Minimum long term stiffness value	Asphalt Material	Stiffness
B1	1900MPa	HRA/DBM 190	1900MPa
B2	2500MPa	DBM 125	2500MPa
B3	3100MPa	HRA 50	3100MPa
B4	>4700MPa	DBM/HDM 50	4700MPa

(Typical carriageway stiffness for example would be designed to be between 3100-4700MPa; Footways normally 1900MPa or less).

IT HAS NEVER BEEN MORE IMPORTANT TO MAKE SUSTAINABLE AND ETHICAL CHOICES.

As part of the Aggregate Industries sustainability strategy, we have identified products that are responsibly sourced, energy efficient and environmentally friendly.





APPLICATIONS

The Foamix range can be applied directly onto the subgrade layer (ie: Type 1) generating additional time/cost efficiencies. Manufactured Foamix and Foamix Eco can be immediately placed and compacted on site or it can be stockpiled for later use, extending working times ensuring continued supply.

Using our mobile mixing plant, we can encapsulate hazardous tar-bound planings from site as the Foamix range; this repurposes the contaminated arisings locally rendering them safe for re-use in construction and mitigates costly specialist disposal charges and delivers a carbon friendly, greener, sustainable solution to our clients.

DO YOU REQUIRE ANY SPECIALIST TOOLS OR EQUIPMENT?

Foamix Eco can be manufactured and laid onsite where construction is taking place using Aggregate Industries' OCL Regeneration mobile mixing plants or Sitebatch Technologies®, meaning we can re-process locally sourced planings from the existing road asset – either onsite or at a nearby location – ensuring it can be placed, compacted, and put into immediate use. This significantly minimises HGV movements across the local road network, construction times, user disruption and delivers a significantly lower scheme carbon footprint.

Foamix Eco can be laid in one single lift up to 150mm thick using conventional surfacing equipment and laying techniques and does not require any additional specialist labour.

IDEAL FOR:

- ▶ Major and minor road construction schemes.
- ▶ Haunch repairs
- ▶ Trench reinstatement
- ▶ Parking areas
- ▶ Cycle tracks
- ▶ Footpath
- ▶ Local housing estate roads





WHAT IS FOAMIX ECO?

Foamix Eco is the groundbreaking carbon neutral evolution of Foamix.

Through extensive R&D developments with the whole supply chain, Foamix Eco represents a step change in infrastructure construction that is helping us achieve our net zero ambitions.

Made using carbon negative aggregates and biogenic binder, the reduced carbon footprint means we can deliver a carbon neutral status across A1-A3, with potential to offer stages A4 and A5.

Each project will be assessed on an individual basis to ensure carbon neutral can be achieved.



WHY CHOOSE FOAMIX?

QUALITY

You can specify with confidence - the Foamix range is currently compliant with Specification for Highways Works Clause 948 Ex Situ Cold Recycled Bound Materials and BS 9228:2021. We follow industry standards for quality control, including UKAS Testing Schedules.

LONGEVITY

The layers in the Foamix range are not prone to cracking as a result of ageing; it brings greater bonding properties due to the RAP % used.

SAFER

Manufactured cold, the Foamix range significantly reduces nuisance fuming, odour and steam on site; material burn risks are eliminated, visibility is improved and operatives benefit from improved working conditions overall.

PUBLIC DISRUPTION MINIMISED

Laid cold, the Foamix range can be trafficked immediately enabling earlier reopening of carriageways to the travelling public, resulting in less traffic disruption and reduced build cost, making the most of taxpayers money.

CARBON

The Foamix range requires less energy to manufacture than conventional asphalt, giving a lower carbon footprint.

The average saving over Hot Mix Asphalt across constituent parts c>45% approx.

Foamix Eco's unique production mix and onsite recycling, can deliver a carbon neutral result across stages A1 - A5 in the building life cycle. Drastically reducing the total carbon footprint of any infrastructure project.

WANT TO KNOW MORE?

Ask your sales representative for further details.
Visit www.aggregate.com/foamix for more information.

If you would like to speak to our technical team,
please email contracting@aggregate.com



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