BARDON ASPHALT

Bardon Superbase® product information

OHS61759 FM96927 EMS96928

This product is a specifically engineered asphaltic concrete 14mm dense binder course mixture and has been designed to fill the gap within the range of binder course materials described in UK asphalt standards.

The omission of a dedicated AC14 binder course within UK standards often leads to inappropriate use of BSEN standard binder course mixtures eg AC20 Dense binder, particularly when laid in relatively thin layers. Superbase can be laid down to 40mm thick and still provide a very dense, impermeable and durable binder course layer whilst still maintaining high levels of resistance to permanent deformation making it applicable for high and low levels of traffic.

- **Suitable for use in either low or high density traffic situations**
- **Equivalent stiffness modulus to a conventional HDM50 or HMB35 for Superbase grades 50 and 35 respectively**
- **Developed to provide the function of a durable and impermeable supporting layer below modern thin surfacings**
- **Relatively rich binder contents and low insitu void contents; designed to be 6% or less rendering them impermeable**
- **Uniform mat with low risk of segregation.**

Key performance properties

Typical mechanical properties	Bardon superbase 35	Bardon superbase 50
UK wheel tracking @ 60°c rut rate (mm/hr)	0.8	1.0
UK wheel tracking @ 60°c rut depth (mm)	1.2	1.9
UK stiffness @ 20°c, 2.5 Hz (MPa)	4500	3000
Vacuum repeated load axial test (vRLAT) Maximum strain rate (microstain/100 cycles)	21	26
Vacuum repeated load axial test (vRLAT) Maximum strain (%)	0.46	0.55

Layer

Base and binder course.

Applications

1. Motorways.
2. Trunk roads.
3. LA highway network.
4. Commercial/industrial.

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Sustainability and local sourcing

Energy use: Aggregate Industries is at the forefront of sustainability and has committed to reduce carbon emissions by 20% by 2012 based on a 2008 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 company in the world to achieve a BES 6001:2008 Responsible Sourcing Certificate from BRE Global. Products are assessed on:

- quality management
- environmental management
- health and safety management
- greenhouse gas emissions
- minimising raw material usage
- labour practice
- biodiversity
- community engagement.

Aggregate

Bardon Superbase is available using a range of standard aggregates. Any special requirements for aggregate properties can be accommodated through consultation.

Binder

Penetration grades 50pen and 35pen.

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

COSHH data

Full COSHH data on Bardon Asphalt products is available on request. Please call the technical helpline on 0845 600 0860.

Technical support

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

For further information, please refer to Bardon Asphalt technical services on 0845 600 0860 or email: techelp@aggregate.com

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