

Highpave®



Designed by Aggregate Industries, Highpave® is a range of fibre reinforced pavement grade concretes that reduce the errors associated with the use of conventional reinforcing methods.

Highpave provides contractors and specifiers with a high performance, secure fast track solution to many of the more challenging aspects of construction such as:

Rapid access
Highpave RA

High abrasion resistance
Highpave WR

High strength requirement
Highpave HS

High durability
Highpave HPC

Low shrinkage
Highpave LS

Highpave utilises carefully selected frost resistant aggregates and a range of metal or polymer reinforcing fibres together with cements selected for the particular application. Highpave is distinguished by a number of enhanced and special technical properties.

Highpave when correctly specified will deliver:

- Unparalleled ease of pavement construction
- Enhanced toughness making it suitable for paving subjected to high impacts in for example lorry trailer parks
- Highpave is available in a high performance grade that will achieve the required compressive strength in as little as 24 hours offering considerable savings in programme
- Placing Highpave is as easy as conventional concrete, is available in strengths up to 100 N/mm² and may be supplied containing a pigment
- Very rapid access, full set in 2 hours and up to 35N/mm² after 8 hours
- High volume stability reduced shrinkage
- Superior toughness when subjected to mechanical forces and plant
- Possible reductions in section, subject to design when compared to traditional concrete
- Certainty of reinforcement location
- Possible savings over conventional steel mesh reinforcement
- Reduction in joints through larger panel construction
- Highpave can be tailored to the particular challenges of your contract.



Applications

Highpave can be utilised in all forms of pavement and ground supported slab construction for residential, transport infrastructure, office and administrative buildings as well as materials recycling, petrochemical, military engineering, hotels, schools and hospitals.

Manufacturing standard

Highpave conforms with the requirement of European standard BS EN 206-1:2001 concrete – Part 1: Specification, performance, production and conformity and with the requirements of BS8500-1 and BS 8500-2 2006.

As with all Aggregate Industries' products Highpave is manufactured under independently monitored third party quality assurance schemes in accordance with ISO 9001 and with factory environmental compliance to ISO 14001.

Typical performance and technical data

Available in strength classes from:	C30 to C70
Flexural strength from:	5 N/mm ²
High early strength:	>30 N/mm ² at 24 hours
Very high early strength:	>35N/mm ² after 8 hours

Installation standard

The Highpave range is intended to be placed by conventional skip, pump or direct placement methods.

Available in consistence classes up to S4.

Full compaction will be achieved by the correct application of standard paving equipment, using other methods may not allow the products to achieve their full potential and should be evaluated with our assistance before use.

Curing

As with any paving concrete it is essential to cure Highpave correctly, any failure to do so will result in some loss of performance.

Whilst Highpave exhibits a superior resistance to the drying effects of wind and sun, conventional good practice should be followed in the prevention of plastic shrinkage cracking.

Immediately the finishing operation is complete final curing should commence and may be accomplished by the use of any recognised high efficiency curing membrane.

Except in cases where rapid access to paving is required curing should continue for at least 7 days.



Sustainability and local sourcing

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 & safety management
- greenhouse gas emissions
- minimising raw material usage
- labour practice
- biodiversity
- community engagement.

Energy use: Aggregate Industries is at the forefront of sustainability and has committed to reduce carbon emissions by 20% by 2016.

Manufacturing location: produced in the UK, with locally sourced materials under strict environmental and social legislation, for local supply.

Recyclable: the product has a life expectancy of 60 or more years and is fully recyclable.

Key aggregate and recycled content

This product may be formulated to be substantially better for the environment than the equivalent traditional concrete. Aggregate Industries are unique in being able to quantify this difference. Wherever available, a recycled or secondary aggregate may be selected to achieve a reduced environmental impact and increased green guide rating.

The raw materials used in the manufacture of the binders are obtained from processes where they form from a co-product.

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 our concrete range of products is available on request.

Technical support

Detailed guidance and assistance with the preparation of specifications and use of Bardon Concrete products is available through the sales offices. A free technical service is also available.

Call our concrete technical services at the nearest sales location to your contract.

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