



Pro-Bed HS ECO Bulk

Fine Bedding Concrete with Recycled Glass

Applications

Ultrascape Pro-Bed HS ECO Fine Bedding Concrete is specifically formulated to meet and exceed the strict demands of BS7533 parts 7 & 12, pavements constructed with clay, natural stone or concrete pavers. The product provides a perfect bound base for natural stone paving and cobbles, concrete paving, flags and block paving, which once laid with Ultrascape Pro-Bed HS ECO, are able to accept foot traffic after just 12 hours and vehicular traffic after 24 hours. The material is also not subject to environmental erosion, which can lead to increased point loads on slabs and consequent breakage.

Technical

Ultrascape Pro-Bed HS ECO is formulated from selected cements, graded fillers and recycled glass. The pre-blended fine bedding concrete is supplied in 25kg bags or alternatively, for those large projects, in 30 tonne bulk silos. The product can be laid from 10mm to 75mm in one pass with greater depths achievable using successive layers. The material mixes easily on site with the addition of water and provides a compressive strength of 38N/mm² after 28 days complying fully with BS7533 parts 7 & 12.

Preparation

It is of vital importance that the supporting layer that is to receive Ultrascape Pro-Bed HS ECO is stable and not liable to settlement or heave. Supporting structures must be cleaned, pre-soaked and all ponded water must be removed prior to application. To promote bond, the supporting layer can be primed using Ultrascape Pro-Prime Slurry Primer. Please note that this product is suitable only for bound/rigid construction, not for unbound/flexible applications.

Mixing

Each silo will have a mixer connected to the underside of the cone. Once the water & electric is connected Ultrascape Pro-Bed HS ECO can be mixed on demand at the touch of a button.

Priming

To increase overall product performance, prime the supporting layer with Ultrascape Pro-Prime Slurry Primer before applying Ultrascape Pro-Bed HS ECO. Priming the roadbase is not a requirement of the British Standard for pavements constructed on a bound base. It is of vital importance that the underside of all paving elements are primed in accordance with BS7533, part 4, annex 5.4.4.2. For full details consult the manufacturer or refer to the Ultrascape Pro-Prime Slurry Primer data sheet.

Note: The bonding characteristics of Ultrascape Pro-Bed HS ECO will only be achieved when the product is used in conjunction with Ultrascape Pro-Prime slurry primer.

Provision of Joints

Consideration must be given to movement joints within a bound or rigid construction. Always consult the Project Engineer/Architect for details regarding movement joints.

Placing

Ultrascape Pro-Bed HS ECO can be laid from 10mm to 75mm in one pass. Greater depths can be achieved using successive layers. Place on a pre-soaked roadbase and spread to the required thickness. Always prime the underside of paving elements using Ultrascape Pro-Prime Slurry Primer prior to placing the Ultrascape Pro-Bed HS ECO. The bedding concrete and the slurry primer must be fresh and wet. Do not attempt to re-mix or add additional water. Areas should not receive pedestrian traffic for 12 hours after application and vehicular traffic for 24 hours.



Features & Benefits

- **Contains recycled glass** - reduces virgin aggregate use
- Can be laid from 10-75mm in one pass
- Shrinkage compensated
- BS7533 compliant
- Small contractor friendly units
- Bulk Silo's for larger projects
- Pre-blended – just add water
- Open to pedestrian traffic in 12 hours
- Open to vehicular traffic in 24 hours
- Long-term durability

Recommended Applications

For the bedding of paving elements where rigid or bound construction is required.

Related Products

- **Ultrascape Pro-Prime** Slurry Primer
- **Ultrascape Flowpoint** Flowable Rapid Set Grout
- **Ultrascape Cempoint** Gun Injected Pointing Mortar
- **Ultrascape Joint Fix** Joint Waterproofing and Surface Sealing Liquid Resin
- **Ultrascape EP-R9** Epoxy Resin Bedding & Concrete Repair Mortar



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Health & Safety

Operatives should wear protective clothing and work in well-ventilated conditions. This product contains Portland cement which, when mixed with water is alkaline and may in some cases cause skin irritation. If product enters the eyes, wash thoroughly with water and seek medical advice. In common with all powder products, the material should be mixed carefully, avoiding the raising of dust. For a full updated Material Safety Data Sheet please visit www.instarmac.co.uk

Physical Properties

Test Age	Compressive Strength*	Adhesion* (without primer)	Adhesion* (with primer)	Shrinkage %
1 day	20 N/mm ²	0.72 N/mm ²	1.73 N/mm ²	0.01 %
7 days	36 N/mm ²	0.98 N/mm ²	2.02 N/mm ²	0.04 %
28 days	38 N/mm ²	1.25 N/mm ²	2.18 N/mm ²	0.11 %
Modulus of elasticity	28 days	<21500 N/mm ²		
Workability	50 minutes @ 20°C			

Depending on temperatures – test carried out at 20°C. Cool temperatures retard, warm temperatures accelerate product performance.

Product Details

Unit/Packaging	25kg paper bags delivered on shrink-wrapped pallets
Storage	Store in closed original container at temperatures between 5°C and 30°C. Avoid frost. This product must be stored in unopened bags, clear of the ground in cool dry conditions and protected from excessive drafts. If stored correctly and used within 6 months of the date shown on the bag, the activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2 ppm) soluble Chromium (VI) of the total dry weight of the cement
Coverage	1x25kg Bag = 1m ² @ 12.9mm Please visit www.ultrascape.co.uk for a free online product calculator
Density	2180 kg/m ³
Yield	13.36 litres (approximately) per 25kg bag
Shelf Life	Shelf life from date of manufacture in correct conditions for sealed bags is 6 months. Please note: the use of this product after the end of the declared storage period may increase the risk of an allergic reaction
Colour	Grey

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