



# Pro-Bed HS

## Fine Bedding Concrete

### Applications

Ultrascape Pro-Bed HS 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, 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 is formulated from selected cements and graded fillers. 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/mm<sup>2</sup> after 28 days complying fully with BS7533 parts 7 & 12. This material should not be used in temperatures below 5°C.

### Preparation

It is of vital importance that the supporting layer that is to receive Ultrascape Pro-Bed HS 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

Add between 2.4 and 2.8 litres of clean water to a suitable mixing vessel. Slowly add the contents of one 25kg bag. Mix mechanically for a minimum of 3 minutes and a maximum of 5 minutes. Do not add extra water or part mix bags.

### Priming

To increase overall product performance, prime the supporting layer with Ultrascape Pro-Prime Slurry Primer before applying Ultrascape Pro-Bed HS. 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 Ultracrete Pro-Prime Slurry Primer data sheet.

**Note:** The bonding characteristics of Ultrascape Pro-Bed HS 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 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. 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

- 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.



### 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
- **Ultracrete 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](http://www.instarmac.co.uk)

### Physical Properties (UKAS Accredited)

| Test Age              | Compressive Strength* | Adhesion* (without primer) | Adhesion* (with primer) | Shrinkage % |
|-----------------------|-----------------------|----------------------------|-------------------------|-------------|
| 1 day                 | 20 N/mm <sup>2</sup>  | 0.72 N/mm <sup>2</sup>     | 1.73 N/mm <sup>2</sup>  | 0.01 %      |
| 7 days                | 36 N/mm <sup>2</sup>  | 0.98 N/mm <sup>2</sup>     | 2.02 N/mm <sup>2</sup>  | 0.04 %      |
| 28 days               | 38 N/mm <sup>2</sup>  | 1.25 N/mm <sup>2</sup>     | 2.18 N/mm <sup>2</sup>  | 0.11 %      |
| Modulus of elasticity | 28 days               | <21500 N/mm <sup>2</sup>   |                         |             |
| 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 <sup>2</sup> @ 12.9mm<br>Please visit <a href="http://www.ultrascape.co.uk">www.ultrascape.co.uk</a> for a free online product calculator   |
| Density        | 2180 kg/m <sup>3</sup>  |
| Yield          | 13.36 litres (approximately) per 25kg bag   |
| Shelf Life     | Shelf life from date of manufacture in correct 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  |

### Contact Us

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