



Pro-Prime

Slurry Primer

Applications

Ultrascape Pro-Prime is a polymer modified cementitious slurry primer specifically formulated to provide exceptional bond between all types of stone surfaces and Ultrascape Pro-Bed HS Fine Bedding Concrete. The use of Ultrascape Pro-Prime in conjunction with Ultrascape Pro-Bed HS ensures full and even contact will be made with aggregate particles as well as promoting adhesion to greater than 2N/mm² as per the requirements of BS7533, parts 7 & 12. The product is suitable for application in town centre pedestrian schemes, pathways and carriageways. Ultrascape Pro-Prime can be used with all types of natural stone, concrete flags and clay paviours.

Technical

Ultrascape Pro-Prime is supplied pre-blended in 20kg bags. With the simple addition of water on site, the product creates a liquid slurry paste, which can be applied to the underside of all paving elements at a thickness of 1mm to 2mm immediately prior to their placement on Ultrascape Pro-Bed HS.

Preparation

Correct surface preparation is critical in order to guarantee successful application and durable product performance. Remove all debris and ponded water from the supporting structure/roadbase. The roadbase as well as the paving elements should be cleaned by brushing or washing with water to remove dust, loose material, packaging and/or production aids prior to the application of Ultrascape Pro-Prime.

Mixing

Place 7 litres of clean water in a suitable container. Add Ultrascape Pro-Prime powder slowly and mix for 3 to 5 minutes to create smooth lump-free slurry. The primer should be used on the supporting layer/roadbase immediately prior to the application of the laying course (Ultrascape Pro-Bed HS). Always prime the underside of paving elements at a thickness of 1mm-2mm immediately before their placement upon Ultrascape Pro-Bed HS.

Application

All surfaces should be pre-soaked with clean water immediately prior to the application of Ultrascape Pro-Prime Slurry Primer. The supporting layer/roadbase should be coated with the primer to a thickness of 1mm-2mm immediately before the application of Ultrascape Pro-Bed HS. The slurry should be fresh and wet when the fine bedding concrete is laid. The underside of all paving elements should be primed to a thickness of 1mm-2mm immediately prior to their placement upon Ultrascape Pro-Bed HS. The slurry should be fresh and wet when the units are placed on the bedding concrete.

Health & Safety

Operatives should wear proactive 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 in order to avoid the raising of dust. For a full updated Material Safety Data Sheet please visit www.instarmac.co.uk



Features & Benefits

- Provides an exceptional bond between bedding concretes and all types of paving elements
- User friendly – requires only the addition of water on site
- BS7533 compliant
- Quick and easy application
- Part of the Ultrascape Streetscape System, which guarantees compatibility and reduces split liability.



Related Products

- Ultrascape Pro-Bed HS** Fine Bedding Concrete
- Ultrascape Flowpoint** Flowable Rapid Set Grout
- Ultrascape Cempoint** Gun Injected Pointing Mortar
- Ultrascape Joint Fix** Sand Sealant and Surface Protector
- Ultrascape EP-R9** Epoxy Resin Bedding & Concrete Repair Mortar



Pro-Prime

Slurry Primer

Physical Properties

Bond (Adhesion) Strength	2.20N/mm ² after 28 days
Workability	1 hour at 20°C
Water Required	7 litres per 20kg
Coverage	15m ² per 20kg

Product Details

Unit/Packaging	20kg 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
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
Yield	16.9 litres (approximately) per 20kg bag
Colour	Grey

Contact Us

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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/mm² 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



Pro-Bed HS

Fine Bedding Concrete

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 (UKAS Accredited)

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 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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Flowpoint

Rapid Set Grout

Applications

Ultrascape Flowpoint is a rapid set grout with high fluid consistency for early trafficking that conforms to the strict demands of BS 7533 parts 7 & 12. Ultrascape Flowpoint is ideal for all pavements where a rigid or bound void-free joint is required. The product is suitable for application in town centre pedestrian schemes, pathways and carriageways, and can be used with natural stone, concrete flags and clay pavements.

Technical

Ultrascape Flowpoint is a fully pre-mixed dry-pack which only requires the addition of water on site. Ultrascape Flowpoint can fill joints from 5mm-50mm and joint depths of up to 200mm in one pour. This highly fluid grout achieves a final compressive strength of 49.6N/mm² (results achieved using 4.25 Litres of water per 25kg bag), and will reach initial set in 30 minutes, will accept light foot traffic after 1 hour, and vehicular traffic after 4 hours (dependent upon temperature).

Mixing and Application

Once the paving is ready to receive the grout the following method must be adhered to:

Immediately prior to jointing it must be ensured that the joints are free from debris and all ponded water removed. The paving surface and joints must be pre-soaked and kept wet until the jointing process has been completed. A 25kg bag requires 4.25 litres of water and must be mixed for between 3 and 5 minutes until a smooth lump-free consistency has been achieved.

Apply the mortar without delay. Do not store liquid mortar other than in transit from mixer. It must be carefully forced into the joints using a suitable rubber squeegee. The mortar should be constantly moved over the surface to repeatedly top up joints in which the mortar may have slumped following initial placement. Use the rubber squeegee to remove as much mortar as possible from the surface. The surface must be kept constantly moist using a soft spray of water.

When the jointing mortar has hardened sufficiently or achieved its initial set the paving surface must be cleaned using a brush and copious amounts of water. Cleaning must be carried out thoroughly and no mortar must be allowed to remain on the surface of the paving.

Precautions

Wash all tools frequently. Mix only enough material to apply in 4 minutes. Never remix or add extra water. Wear protective clothing. Avoid skin and eye contact - wet cement can burn the skin. Cool temperatures retard, warm temperatures accelerate.

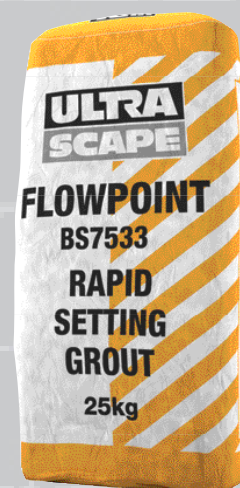
Health & Safety

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Features & Benefits

- Open to foot traffic in 1 hour
- Open to vehicular traffic in 4 hours
- Rapid setting
- Exceptional bond strength
- Shrinkage compensated
- Mixes quickly on site with water
- Initial set after 15 minutes at 20°C
- Economical to use
- Conforms to BS7533
- Ideal for large-scale projects
- Part of the Ultrascape Streetscape System, which guarantees compatibility and reduces split liability



Related Products

- Ultrascape Flowpoint ECO** Rapid Set Grout with Recycled Glass
- Ultrascape Pro-Prime** Slurry Primer
- Ultrascape Pro-Bed HS** Fine Bedding Concrete
- 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



Flowpoint

Rapid Set Grout

Physical Properties

Test Age	Compressive Strength*	Flexural Strength*	Tensile Strength*	Bond Strength
2 hours	10 N/mm ²	-	-	-
4 hours	12 N/mm ²	-	-	-
24 hours	14 N/mm ²	4 N/mm ²	1.69 N/mm ²	-
3 days	15 N/mm ²	-	-	-
7 days	25 N/mm ²	4.5 N/mm ²	2.65 N/mm ²	-
28 days	49.6 N/mm ²	7.1 N/mm ²	3.91 N/mm ²	>1.5 N/mm ²
Shrinkage	0.06			
Workability	5-15 minutes *			
Modulus of elasticity	19200 N/mm ²			
Setting time	30 minutes *			

*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	72 bags = m ³ Please visit www.ultrascape.co.uk for a free online product calculator
Yield	13.9 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	Natural Grey & Charcoal

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