

eco-bed

environmentally friendly bedding mortar

FEATURES & BENEFITS



Contains 20% recycled material



BS 7533 -101:2021 Compliant



Depth: 10-100mm



Open to pedestrian traffic: 12 hours



Open to vehicular traffic: 24 hours



Just add water



Freeze / thaw resistant



TECHNICAL

UltraScape eco-bed is formulated from selected cements and graded fillers to comply and exceed the performance requirements of BS 7533-101:2021, table 9, Type 25 and Type 35 bedding mortars. 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 100mm 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 45N/mm² after 28 days complying fully with BS 7533.

If the following conditions are met, eco-bed can be used from 2°C and rising.

- The ground to be laid upon is not frozen.
- The temperature is at least 2°C on a rising thermometer.
- Fresh bedding should be protected from freezing conditions until sufficient curing is reached.

APPLICATIONS

UltraScape eco-bed provides a perfect bound base for natural stone paving and cobbles, concrete paving, flags, block paving and 20mm Porcelain tiles, which, once laid with UltraScape eco-bed 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.

PREPARATION

It is of vital importance that the supporting layer that is to receive

UltraScape eco-bed 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.

PRIMING

To increase overall product performance, prime the supporting layer with Ultrascape pro-prime before applying UltraScape eco-bed. Priming the roadbase is 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 BS 7533-101:2021. For full details consult the manufacturer or refer to the UltraScape pro-prime datasheet.

Note: The bonding characteristics of UltraScape eco-bed will only be achieved when the product is used in conjunction with UltraScape pro-prime.

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.

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.

Installation Guide for domestic patios/garden areas.

1. Ensure subbase is sound and solid and not prone to settlement.
2. Base layer of compacted Type 1 stone should be installed in 2 layers. Each layer should be compacted to 50mm. This should result in a minimum 100mm compacted depth. Ensure Type 1 stone is fully compacted, failure to do so will result in an unstable base.
3. eco-bed should be applied to a minimum depth of 30mm on top

of the compacted Type 1 stone. Only mix enough bedding mortar to ensure it remains wet when fixing the primed paver.

4. Porcelain Pavers are bedded into the Ecobed after applying a liberal coat of pro-prime Slurry Primer to the back of the paver. Press pavers well into the eco-bed to ensure full contact. Ensure pavers are bedded while both bedding mortar and slurry primer are still wet to ensure full contact.

Note: A stronger base construction is required for driveways that accept standing vehicles please contact Instarmac for guidance.

PRODUCT AND TECHNICAL DATA

Unit/packaging	25kg bags delivered on shrink-wrapped pallets
Storage	Store in a cool, dry and frost free area at temperatures between 5°C and 30°C
Yield	13.36 litres approx, per 25kg bag
Workability*	50 minutes @ 20°C
Shelf life	8 months from the date of manufacture printed on the bag unopened in the above conditions. High temperatures and high humidity will reduce shelf life.
Bond (Adhesion strength)	>2.31/mm ² after 28 days (with primer)
Water required	2.4-2.8 litres per 25kg
Compressive strength	45N/mm ² after 28 days
Flexural strength	6N/mm ² after 28 days
Modulus of elasticity	19200N/mm ²
Density	2088kg/mm ³
Colour*	Grey
Permeability	≥5x10 ⁻⁵ m/s
Shrinkage	None

*Depending on temperatures - test carried out at 20°C. Cool temperatures retard, warm temperatures accelerate product performance. As with all raw materials, colour variation may occur. Please note that this does not affect the consistency or characteristics of the enclosed product.

HEALTH, SAFETY AND ENVIRONMENTAL

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material safety data sheet relating to this product is available from instarmac.co.uk

QUALITY ASSURANCE

All products are manufactured in a plant whose quality management system is certified / registered as being in conformity with BS EN ISO 9001, ISO 14001 and ISO 45001. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or

use of our products because we have no direct or continuous control over where and how products are used. All products are sold subject to our conditions of sales, copies of which may be obtained upon request.

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