

prembed mortar

**ULTRA
SCAPE**

fibre modified cement binder

TECHNICAL DATASHEET



FEATURES & BENEFITS



light foot traffic: 12 hour



For use with all types of paving elements



Set time: 12 hours



Bed depths: 30-100mm

APPLICATIONS

All correctly prepared substrates are suitable for receiving an UltraScape prembed mortar. External paving would be a sub-base of 100mm of type one compacted stone. This is made up of one 50mm layer of compacted stone, followed by a second 50mm layer, giving a compacted depth of 100mm. Once this has been achieved, a minimum thickness of 30mm bed of UltraScape prembed mortar and aggregate can be applied. For driveways and heavy trafficked areas we recommend a minimum bed depth of 60mm. Once bedding mortar has been laid, the reverse side of the porcelain or stone will require a coat of Instarmac slurry primer, this should then be positioned on to the bedding mortar ensuring wet on wet contact. For use with driveways and trafficked areas, we recommend a 4:1 ratio due to loading. For use on Domestic Patios, a 6:1 ratio is sufficient.

TECHNICAL

UltraScape prembed mortar is a fibre modified cement binder which, when mixed with graded aggregates and water, can produce a rapid drying high strength bedding mortar ready to receive floor finishes such as porcelain/natural stone tiles etc. UltraScape prembed mortar can be used to form falls within patios, driveways.

MIXING AND APPLICATION

UltraScape prembed mortar, aggregates and water can be mixed using mechanical mixers such as, concrete pan mixer, forced action mixer, screw mixer or pressurized screed pump. Where it is not possible to use a mechanical mixer and mixing by hand is required, it is recommended to thoroughly dry mix the UltraScape prembed mortar with the aggregates. Then adding water in small increments whilst mixing until a "damp earth" mix is achieved, typically 5 minutes. The mortar should hold together when formed into a ball.

RECOMMENDED MIX DESIGN RATIO IS

6:1 aggregate: UltraScape prembed mortar (Domestic Patios)
UltraScape prembed mortar binder 285 kg/m³
0/8 mm Aggregate 1 715 kg/m³
Water 100 kg/m³

4:1 aggregate: UltraScape prembed mortar (Driveways and trafficked areas)

UltraScape prembed mortar binder 400 kg/m³ 0/8 mm
Aggregate 1600 kg/m³
Water 100 kg/m³

Note: Water addition may vary depending on moisture content of the aggregate being used.

WORKABILITY

Approximately 45 - 60 minutes depending on temperature.

PRECAUTIONS

Wall types vary considerably but all have the same basic need to be structurally sound, strong, smooth and level. It is essential that the wall to be tiled has sufficient inherent strength to hold the proposed tile and the adhesive being used. The following chart lists maximum national standard loadings for a variety of wall substrates:

- Do NOT mix UltraScape prembed mortar with other cements or binders
- Do NOT dry mix with aggregate and leave
- Do NOT overwater UltraScape prembed mortar
- Do NOT add water or re-agitate the mortar once setting has started
- Do NOT use fine sand - only use aggregate grading as in BS EN 13139 (0/8)
- USE the UltraScape prembed mortar as soon as it is mixed.

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PRODUCT AND TECHNICAL DATA

Density of mix (kg/m ³)	2100 (approx.)
Workability (minutes)	60
Light foot traffic (hour)	12

*The above coverage is provided as a guide only and reflects typical paving applications without any wastage. It should not be used as an exact material requirement calculation.

**As with all raw materials, colour variation may occur. Please note that this does not affect the consistency or characteristics of the product.

HEALTH, SAFETY AND ENVIRONMENTAL

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your 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 safety datasheet 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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