



High Performance Permeable Low Carbon Bedding Mortar

tuffbed 2-pack is a high performance, naturally pure hydraulic bonding mortar.

BS 7533-101:2021 recommends a design thickness of 40 mm however tuffbed 2-pack exceeds the requirements of a Type 35 mortar at a minimum thickness of 20 mm with no maximum thickness due to its ability to achieve performance without compaction.

tuffbed 2-pack is shrinkage compensated, reducing the risks of failure associated with building permanent stress into new pavement structures, the inevitable result of excessive shrinkage, often caused by polymers and other admixtures.

The elastic modulus of tuffbed 2-pack is optimised to provide the correct supporting stiffness whilst continually absorbing the thermal and dynamic stresses inherent in all pavement structures.

tuffbed 2-pack fully complies with or exceeds all of the bedding mortar characteristics of BS7533-101, Table 9, for Type 25 and 35 bedding mortars. In addition, when tested in accordance with BS7533 101, Annex C, tuffbed 2-pack does not exceed the maximum permissible capillary rise of 20mm.

Typical water requirement: A minimum of 5 litres for each 125kg batch of bagged of product prepared.

Storage life is nominally twelve months from date of manufacture in dry conditions, though mortar will last substantially longer and continue to meet its performance specifications if stored in moisture free conditions, and product remains in a dry powder form that appears fit for use. After long periods, the material settles and can feel solid to the touch, though will remain useable.

tuffbed 2-pack is supplied as a bagged dry product packed in moisture resistant bags, to be mixed on site with a dedicated approved aggregate. tuffbed 2-pack purchases do not include tuffgrit, tuffgrit is sold separately. Both products are then delivered together.

Mixed to a 4:1 ratio with tuffgrit (4 tuffgrit : 1 tuffbed 2-pack).

Where an enhanced adhesion bond is required for certain applications, the coating of surfaces using tuffbond priming mortar is recommended for use together with tuffbed 2-pack.

Technical Specification

Usage	Bedding / Laying Course
Characteristics	Two part product; binder and tuffgrit aggregate
Colour	Grey
Packaging	Bag
Packaging weight	25 kg
Minimum bed depth	20 mm
Typical water used	5 litres per 125 kg batch
Typical coverage	30 mm: 60 kg/m ² 40 mm: 80 kg/m ² 50 mm: 100 kg/m ²
Packages per pallet	40
Pallet weight	1,030 kg inc. pallet
Working time	40 min at 10°C 30 min at 20°C
Working temperature	≥ 3°C
Compressive strength (20°C)	14 days: ~25 N/mm ² 28 days: ~35 N/mm ²
Flexural strength	~7 N/mm ²
Adhesion strength	~1 N/mm ² (without tuffbond) ~2 N/mm ² (with tuffbond)
Vertical permeability	~18 x 10 ⁻⁴ m/s
Horizontal permeability (EN 12697 - 19)	8.5 x 10 ⁻⁴ m/s <i>Required where base is impermeable concrete or bituminous base.</i>
Capillary rise	< 20 mm
Modulus of elasticity	14,000 - 18,000 N/mm ²
Shrinkage	≤ 0.10%
Storage life	24 months from manufacture date
NBS sections	M10, Q24, Q25
Compliance	BS 7533:101-2021
Uniclass 2015	Pr 20 31 53 61 Paving Laying Course Mortars



Steintec[®]
high performance paving mortars

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