



## tuffbed Utility Pre-mixed, Permeable, Type 25, Paving Bedding Mortar

tuffbed Utility is a pre-mixed high performance, naturally pure hydraulic bedding mortar for use in modular pavements constructed in natural stone, concrete or porcelain in the form of flags, slabs, blocks and setts.

tuffbed Utility is pre-blended and packaged in moisture resistant 25 kg bags for convenience in storage, handling, mixing and application. It has been designed to meet the requirements for repairs / reinstatements, small projects, public realm pedestrian areas, for landscapers, term and utility contractors.

Bedding depths of between 30 mm and 70 mm can be placed in a single layer. Greater depths can be achieved by placing successive compacted layers. Ideal versatility and workability is achieved with a minimum layer thickness of 30mm.

tuffbed Utility is shrinkage compensated, reducing the risks of failure associated with building permanent strain into new pavement structures, leading to uncontrolled cracking, the inevitable result of excessive shrinkage. The elastic modulus of tuffbed Utility is optimised to provide the correct supporting stiffness whilst continually absorbing the thermal stresses and dynamic loads that all pavement structures are subjected to.

It is a requirement of BS7533-101 that laying course material be non-frost susceptible, permeable when cured and meet all the bedding mortar characteristics in Table 9. In addition, when tested in accordance with Annex C, bedding mortars will have a maximum capillary rise of 20mm. tuffbed Utility pre-mixed meets or exceeds ALL of the requirements for type 25 bedding mortars.

Add approx. 2 to 2.5 litres of water per 25 kg bag, depending on desired workability.

Storage life is 12 months in dry conditions from the manufactured date. The product does not contain polymers or similar synthetic and organic additives which can degrade over time however, this storage limitation is due to chromium VI in cements, please refer to health and safety information.

For an enhanced adhesion bond between the bedding layer and the underside of the paving elements, and the supporting layer beneath, brush apply tuffbond priming mortar. This is a requirement for compliance with BS7533-101:2021.

### Technical Specifications

|                              |  |
|------------------------------|--|
| Packaging                    | 25 kg Bag  |
| Bed depth range              | 30 - 70 mm   |
| Packages per pallet          | 40   |
| Pallet quantity              | 1 tonne  |
| Working time                 | 30 min at 20 °C<br>40 min at 10 °C   |
| Working temperature          | 2 - 30 °C  |
| Typical water used           | 2 - 2.5 litres   |
| Coverage                     | 3x 25kg bags per 1m <sup>2</sup><br>(30mm bedding depth)                     |
| Permeability                 | ~18.8 * 10 <sup>-4</sup> m/s   |
| Compressive strength (20 °C) | 14 days: ~25 N/mm <sup>2</sup>   |
| Flexural strength            | ~3.5 N/mm <sup>2</sup>   |
| Elastic modulus              | 11,500 - 18,500 N/mm <sup>2</sup><br>(Depending on application)              |
| Adhesive bond                | ~1 N/mm <sup>2</sup><br>~2 N/mm <sup>2</sup> when used with tuffbond Utility |
| Consumption                  | 1.9 kg per litre<br>(without wastage)  |
| Storage life                 | 12 months from manufacture date  |
| Compliance                   | BS7533-101:2021  |



**Steintec**<sup>®</sup>  
high performance paving mortars

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