

## Technical information for “tuffbed®” bedding mortar

SteinTec® **tuffbed®** is a high performance, naturally pure hydraulically bonding mortar. There are no additives or gauging liquids – “just add water” - SteinTec® **tuffbed®** is tolerant of a range of water contents, to suit preferred working methods. SteinTec® **tuffbed®** does not require the use of special mixing equipment.

Bedding depths of between 20 mm to 70 mm may be placed in a single layer. Greater depths may be accommodated by placing successive layers of SteinTec® **tuffbed®** as a screed bed.

SteinTec® **tuffbed®** is shrinkage compensated, reducing the risks of failure associated with building permanent stress into new pavement structures, the inevitable result of excessive shrinkage.

The Elastic Modulus of SteinTec® **tuffbed®** is optimised to provide the correct supporting stiffness whilst continually absorbing the thermal and dynamic stresses inherent in all pavement structures.

SteinTec® **tuffbed®** complies with or exceeds the performance requirements of BS7533-7 & BS7533-12

### Some important performance data for tuffbed® bedding mortar:

Lowest working temperature 2°C

Length of working time 2 hours at 20°C - 4 hours at 10°C

Typical compressive strength gain:-

14 days at 20° C           ca. 25 N/mm<sup>2</sup>

28 days at 20° C           ca. 35 N/mm<sup>2</sup>

Flexural strength           ca. 4.5 N/mm<sup>2</sup>

Adhesion strength         ca. 1.0 N/mm<sup>2</sup>

Adhesion strength         ca. 2.0 N/mm<sup>2</sup> (when used with SteinTec® **tuffbond®** priming/bonding mortar)

Modulus of Elasticity     ca. 14,000 – 18,000 N/mm<sup>2</sup> according to application and method

Consumption               approx. 1.9 kg/litre (2 kg/litre is commonly applied to allow for wastage)

Typical water to add     approx. 2.5 litre per 25 kg bag of dry product.

It is recommended that sufficient water is added to the bedding mortar to achieve the 150 mm slump recommended in BS7533-4:2006 section 5.4.4.2

SteinTec® mortars are resistant to frost and anti-freezing chemicals.

SteinTec® **tuffbed®** is supplied as a pre-mixed dry product packed in moisture resistant bags.

Storage life 6 months in dry conditions (mortar can last longer if stored in moisture free conditions, product found to be in a dry powder form is fit for use)

Where an enhanced adhesion bond is required for certain applications, the coating of surfaces using SteinTec® **tuffbond®** priming mortar is recommended for use together with SteinTec® **tuffbed®**

Technical Support **0800 360 872**

### New Zealand & Australia

360 Urban Limited  
0800 360 URBAN (87226)  
admin@360urban.co.nz  
www.360urban.co.nz  
PO Box 13260, Armagh, Christchurch 8141

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