

# Technical information

## ULTIBED SR CONCRETE



### DESCRIPTION

Ultibed Surface Reinstatement Concrete is a fibre reinforced, non-shrink, rapid setting concrete designed for surface reinstatement around street ironwork and general reinstatement in concrete roads, drives and surfaces. Typical applications include the filling of 'picture frames', concrete road and path repairs, and surface reprofiling.

### USES

Ultibed Surface Reinstatement is perfect for any application that requires high early strength gain and a quick return to service time.

It's rapid set and high early strength development help reduce construction and road closure times, making it ideal for both planned and emergency repairs.

Ultibed Surface Reinstatement Concrete is compatible for use with concrete, brick and stone substrates.

### SPECIAL PROPERTIES

- Ready to receive traffic after just 90 minutes
- Early strength gain
- Fibre reinforced
- Easy to use, pre-blended, one component product - just add water and mix
- Available in 25kg water resistant bag or tub
- Excellent bond strength
- Shrinkage compensated
- High final strength
- Smooth trowelable consistency

### PREPARATION

All application substrates must be sound, clean and free from dust, dirt, debris, oil, grease and other contaminants.

Proper surface preparation is vital to ensure the successful application and durable performance of the concrete.

All substrates should be pre-wetted with water prior to the application of the concrete, however any standing water should be removed.

### MIXING INSTRUCTIONS

For best results Ultibed Surface Reinstatement Concrete should be mixed using a mechanical mixer such as a forced-action high shear mixer or a slow-speed drill and paddle mixer. Alternatively, the product can be mixed by hand using a shovel.

Mix each 25kg unit with 2.3 - 2.8 litres of cool, clean water. Pre-measure the required volume of water into a clean mixing vessel and steadily add the powder to the water. The product should be mixed for 2-3 minutes until a smooth, homogeneous consistency is achieved.

Due to the rapid setting nature of Ultibed Surface Reinstatement Concrete, only ever mix a quantity of material that can be used and placed within 5 minutes of the end of mixing.

Never remix or add extra water to extend the working time of the material.

## APPLICATION INSTRUCTIONS

Ultibed Surface Reinstatement Concrete should be applied at a thickness of

10mm - 100mm in a single pass. If thicker sections are required this can be achieved using the layer-on-layer method.

Ultibed Surface Reinstatement Concrete should be placed on the pre-wetted application area without delay after mixing. Ensure the material is tamped down and well compacted as soon as possible after placing.

Ultibed Surface Reinstatement Concrete can be finished by floating using a trowel or similar.

Recommended ambient application temperature is 5°C to 25°C.

## PERFORMANCE DATA

Water Addition (per 25kg)	2.5 to 3.0 litres
Workability	10-20 minutes
Set Time	< 40 minutes
Shrinkage	Less than 0.001%
Density	2250-2300kg/m <sup>3</sup>
Yield (per 25kg)	12.0 litres

	Compressive
60 minute	10.0 N/mm <sup>2</sup>
2 hours	18.0 N/mm <sup>2</sup>
4 hours	24.0 N/mm <sup>2</sup>
1 day	31.0 N/mm <sup>2</sup>
7 days	42.0 N/mm <sup>2</sup>
28 days	50.0 N/mm <sup>2</sup>

The above figures are derived from laboratory testing at 20°C and at a WLR of 0.11.

## CLEAN UP

Tools and equipment can be cleaned easily with water. Cleaning of tools and equipment should be carried out as soon as is practicable well away from the application area.

## PACKAGING AND STORAGE

Ultibed Surface Reinstatement Concrete is available in nominal 25kg plastic bags or tubs, palletised and shrink wrapped.

Palletised Ultibed Surface Reinstatement Concrete should be stored in cool dry areas clear of the ground sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in - first out basis. Shelf life is 12 months' subject to temperature and humidity.

Individual bags of Ultibed Surface Reinstatement Concrete should be stored in sealed original packaging in a dry location at temperatures between 5°C and 30°C. Avoid exposure to water, frost or heat - high temperatures and high humidity will lead to a reduced shelf life.

## QUALITY CONTROL

All Tarmac products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

## HEALTH AND SAFETY

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet.

Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

## INFORMATION, PRICES & ORDERING

For technical information, pricing and to place orders contact our Sales Office on the following:

Telephone: 03444 630 046

Email: [specialistproducts@tarmacbp.co.uk](mailto:specialistproducts@tarmacbp.co.uk)

Visit our website: [www.tarmac.com](http://www.tarmac.com)

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## Product Data Sheet