

Technical information

ULTIBED MORTAR



DESCRIPTION

Ultibed PR is a two-component multipurpose polyester resin mortar for rapid bedding and fixing of utility access covers and frames, highways ironwork, duct frames and precast concrete units. It is particularly suited for use in critical locations and heavily trafficked areas. Ultibed PR complies with Department of Transport Design Manual for Roads and Bridges HA104/09.

USES

Ultibed PR 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.

Typical applications include the bedding of inspection chamber frames/covers, gully grates, stanchion posts, kerb stones, setts and other street furniture installations.

Ultibed PR is compatible for use with concrete, brick and stone substrates.

SPECIAL PROPERTIES

- Open to traffic after 60 minutes
- Exceptional early and ultimate strength
- Bedding depth 5-50mm
- Easy to use

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 mortar.

MIXING INSTRUCTIONS

Ultibed PR should be mixed using a mechanical mixer such as a forced-action high shear mixer or a slow-speed drill and paddle mixer. Add the entire contents of the tin into the tub and then slowly add all the filler/activator while mixing thoroughly with a slow speed paddle mixer. Only add the remaining additive if required to achieve the desired working consistency. The product should be mixed for 2-3 minutes until a smooth, homogenous consistency is achieved. Due to the rapid setting nature of Ultibed PR, only ever mix a quantity of material that can be used and placed within 5-10 minutes of the end of mixing. Never remix or add additional resin to extend the working time.

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APPLICATION INSTRUCTIONS

Ultibed PR should be placed on the application area without delay after mixing. Apply an even bed thickness to the whole application area ensuring a nominal 5-10mm excess thickness is present to allow for bedding of the frame. Lift the frame in to position (using suitable lifting equipment as necessary) and lower the frame onto the still malleable mortar. Care should be taken to avoid creating air voids under the frame at this stage. The frame should then be tamped down to the correct height, ensuring the top of the frame sits level to surface of the road. Point up the inner and outer exposed surfaces ensuring all voids are filled. Ultibed PR is not suitable for use in wet conditions.

Once the bedding mortar has reached initial set, the backfill concrete – Ultibed Concrete or Ultibed Flowing Concrete can be mixed and placed.

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

PERFORMANCE DATA

Colour	Buff
Workability	5-10 minutes
Setting Time	15-20 minutes
Density	2000kg/m ³
Yield (per 25kg)	12.5 litres

	Compressive	Flexural
1 hour	60.0 N/mm ²	8.0 N/mm ²
2 hours	70.0 N/mm ²	9.0 N/mm ²
7 days	80.0 N/mm ²	10.0 N/mm ²
28 days	85.0 N/mm ²	12.0 N/mm ²

The above figures are derived from laboratory testing at 20°C.

PACKAGING AND STORAGE

Ultibed PR is available in nominal 25kg plastic buckets containing 1 tin of resin, and 1 bag of filler/activator.

Palletised Ultibed PR 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 6 months' subject to temperature and humidity.

Individual bags of Ultibed PR 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 Pozament 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

Visit our website: www.tarmac.com

Tarmac Building Products Ltd.,
Swains Park Industrial Estate, Park Road, Overseal,
Swadlincote, Derbyshire, DE12 6JT

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For more details contact:

03444 630 046

specialistproducts@tarmacbp.co.uk

Product Data Sheet