

# TECHNICAL INFORMATION

## Ultibed HA 104 FLOWABLE – Cementitious Fluid Mortar

### Product Data Sheet

#### DESCRIPTION

**Ultibed HA 104 Flowable** is a two component, high performance fluid mortar combining the benefits of resin-based materials with the ease of use of cementitious materials. The mortar complies with DMRB HD27/04, DMRB HA 104 FLOWABLE104/09, and NRA MCDRW Vol 1 Clause 507.17.

**Ultibed HA 104 Flowable** is designed for the rapid installation and reinstatement of highway furniture and provides exceptional performance in wet weather conditions.

The mortar is compatible for use with concrete, brick and stone substrates.

#### BENEFITS

- Controlled quick setting
- High early strength
- Easy to use
- Complies with DMRB HD27/04
- Complies with DMRB HA 104/09
- Complies with NRA MCDRW Vol1 Clause 501.17

#### MIXING INSTRUCTIONS

Add the contents of the liquid additive container to a suitable mixing vessel, reserving approx. 200ml, and then slowly add the contents of the 18kg bag while mixing thoroughly with a slow speed paddle mixer. Only add the remaining additive if required to achieve the desired workability.

Extra water or additive should not be added.

**Ultibed HA 104 Flowable** will start to set within 15 minutes. Do not remix.

#### APPLICATION INSTRUCTIONS

All substrates must be clean and free from laitance, dust and loose particles. All traces of contamination, such as oils, grease and chemicals should be removed.

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

All substrates should be dampened with water prior to the application of the mortar but should be free from standing water.

**Ultibed HA 104 Flowable** can be placed between 10-50mm. Pre-level the street furniture and plug any gaps using **Ultibed HA**. Pour the material to the required depth, working in a single direction to avoid air pockets. Due to the rapid setting time **Ultibed HA** should be placed without delay. All works must be carried out in line with the recommendations found in the relevant sections of the Design Manual for Roads and Bridges.

**Ultibed HA 104 Flowable** should not be used if the temperature is below 3°C on a falling thermometer or below 1°C on a rising thermometer.

For more details contact:  
03444 630 046 [specialistproducts@tarmacbp.co.uk](mailto:specialistproducts@tarmacbp.co.uk)

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## COVERAGE

One pack (18kg powder and 2.3 litres of liquid) will cover approximately 1m<sup>2</sup> at 10mm thick.

## PERFORMANCE DATA

Set Time	<15 minutes
Set Density	2200kg/m <sup>3</sup>
Shrinkage	<0.1%
Tensile Strength (3 hrs)	5 N/mm <sup>2</sup>
Tensile Adhesion Strength	>3MPa to concrete

	Compressive Strength
2 hours	35 N/mm <sup>2</sup>
3 hours	40 N/mm <sup>2</sup>
1 day	50 N/mm <sup>2</sup>
28 days	65 N/mm <sup>2</sup>

	Flexural Strength
2 hours	8 N/mm <sup>2</sup>
3 hours	9 N/mm <sup>2</sup>
1 day	10 N/mm <sup>2</sup>
28 days	12 N/mm <sup>2</sup>

The above figures are derived from laboratory testing at 20°C. Use of **Ultibed HA 104 Flowable** in colder temperatures will decrease the set and strength development. Use in warmer temperatures will accelerate the set and strength development.

## 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 HA 104 Flowable** is available in nominal 18kg bags and 2.5L bottles palletised and shrink wrapped. **Ultibed HA 104 Flowable** 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 minimum 6 months subject to humidity conditions.

## 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**

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