

## UniPutty 104

### Two component, cement-based putty and protective coating

#### Description

**UniPutty 104** is a two component, cement-based, polymer modified compound. **UniPutty 104** can be mixed to a paste consistency. In this case it can be applied as walls and ceilings putty using scrapper or putty knife. Also, it can be mixed to fluid consistency. In this case, it can be applied using brush or roller as walls and ceilings protective coating.

#### Features and benefits

- Excellent resistance to different weather conditions. Suitable for internal and external applications including coastal areas.
- Excellent adhesion to smooth cement-based substrates including fair-face concrete.
- Breathable.
- Can be applied to 7 days old cement-based substrate.
- High resistance to carbon dioxide and chloride ion diffusion.
- Low permeability.

#### Recommended for

- As a stucco (putty), **UniPutty 104** is ideal to smooth and even out concrete surface defects caused by shutter movement, blowholes, and slight honeycombing. It is also used to smooth concrete surfaces to receive protective coatings.
- As a coating, it is be used to protect concrete structures from carbonation and chloride attack. It is used to unify the final surface of concrete elements for neat appearance.

#### Composition

**UniPutty 104** Powder is composed of high strength Portland cement, well-graded fillers and a compound of selected chemicals.

**UniPutty 104** Liquid is composed of polymer and special additives.

#### Packaging

**UniPutty 104** Powder is available in 25 kg bags.

**UniPutty 104** Liquid is available in 5 liters jerrycans.

#### Coverage

As a stucco: 0.4-0.5 kg/m<sup>2</sup>.

As a coating: 0.6-0.7 kg/m<sup>2</sup>.

#### Note:

Coverage rate takes no account of wastage and may vary according to surface condition and application method.

#### Technical data

Mixed density	1.45 kg/liter
Compressive strength	>20 N/mm <sup>2</sup>
Tensile adhesion strength	>0.5 N/mm <sup>2</sup>
Pot life	60 minutes @ 20°C
Application thickness (stucco)	0.2 – 4 mm/coat
Color	Grey

#### Surface preparation

Substrates to be treated should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any other loose materials. Deep surface defects should be filled with suitable repair mortar.

Wash the substrate with clean water and remove any excess water at the time of application.

#### Mixing

**UniPutty 104** mixture can be obtained by mixing a 25 kg bag of **UniPutty 104** Powder with the required quantities of **UniPutty 104** Liquid and water as follows:

	Stucco consistency	Coating consistency
<b>UniPutty 104</b> Powder	25 kg	25 kg
<b>UniPutty 104</b> Liquid	1.25±0.25 liters	1.75±0.25 liters
Water	7.00±0.25 liters	18.50±0.25 liters

For best results, use as little water as possible and mix to give the required consistency. Mix mechanically using slow speed drill fitted with suitable mixing paddle. Add the contents of **UniPutty 104** bag to the mixing liquid slowly while mixing. Mix for 5-10 minutes until homogeneous consistency is achieved. Leave the mixture for 3 minutes before use. Re-mix for 2 minutes. Do not over mix. MIX AND USE. Mix material that can be applied within 60 minutes (pot life). **UniPutty 104** may stiffen on standing. Re-mix it to regain workable consistency but do not add more water. Partial small quantities may be mixed manually using suitable hand tools.

## Application

### Stucco

**UniPutty 104** stucco should be applied using the traditional hand application technique. Use suitable hand tools such as spatula, stucco knife or steel trowel. Surfacing is obtained with one or several coats depending on the surface condition and the required finish. In case that more than one coat will be applied, leave each coat to dry for 4 - 6 hours before applying the following coat. Lightly grind the final surface using very fine emery paper till the required surface is achieved.

### Coating

**UniPutty 104** coat should be applied using stiff brush or short hair roller. Apply the first coat uniformly onto the prepared substrate. Finish it in one direction for neat appearance.

Leave the first coat to dry for 4 - 6 hours. Apply the second coat onto the first coat and finish it in one direction preferably at right angle to the first coat.

## Cleaning

Clean tools with water immediately after use. Hardened materials should be cleaned mechanically

## Storage and shelf life

If stored unopened in a dry place at a temperature between +5°C and +30°C away from sources of heat and moisture, shelf life is 12 months from the date of manufacture printed on the pack.

## Health and Safety

**UniPutty 104** Powder contains cement which may cause skin irritation. It may cause allergic skin reaction and eye damage. Avoid breathing dust. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention.

**UniPutty 104** Liquid is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions taken for the handling of chemicals. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children.

For further information, please ask for Safety Data Sheet for this product.

***The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: [www.acc.com.eg](http://www.acc.com.eg).***