

# Roundtower NHL 3.5 Coarse

Ready mixed natural hydraulic lime mortar



## Product

Multi-purpose, dry ready mixed **Lime Mortar** (add water).

Mix Ratio – 2:5

Binder Strength – NHL3.5

Factory blended mortar using a coarse kiln dried sand and NHL, combined with carefully selected additives to improve the mortar's physical and mechanical properties, whilst maintaining all of the virtues of a pure Natural Hydraulic Lime mortar.

## Usage

CLD30 Drymix is a designed multi-purpose mortar for bedding, building and pointing applications, as well as weaker render coats.

Suitable for applications in building conservation where the binder strength is appropriate for the host background/surface.

## Coverage

After mixing, a 25kg bag will produce approximately 13.5 litres of mortar.

For render applications, a 25kg bag will cover approximately 1.35m<sup>2</sup> at 10mm thickness.

For building applications, a 25kg bag will lay approximately 25 bricks.

## Advantages

- Quality controlled production.
- Consistency of mix ratio and working additions.
- Improved workability of mortar, extended working and finishing time and reduced risk of shrinkage.

## Colours

CLD30 Drymix is entirely natural in colour. No pigments or colourants are added.

For applications where colour is important (pointing, unpainted render finish), we strongly advise that sufficient quantities of mortar are purchased and all bags from the same batch to ensure consistency. However, please note that colour variation is still possible due to the use of natural sands.

## Preparation

In general, this will be determined by the purpose and application of the mortar.

We would expect appropriate preparation in accordance with best practice; where the surface is clean, free of dust and other debris.

Where necessary the background should be adequately dampened to promote adhesion/bond with the host surface.

Dense impervious backgrounds/materials are unlikely to be very absorbent and require little to no dampening, whereas more absorbent backgrounds/materials require adequate dampening in order to prevent rapid drying.

Whilst CLD30 Drymix includes additions to try and mitigate these issues, best practice still needs to be followed.

## Mixing

A 25kg bag of CLD30 Drymix will require 4 to 5 litres of clean potable water. The water addition will vary according to the application and desired consistency/workability of the mortar. Always avoid making the mortar too wet, as this can promote shrinkage issues, especially when used as a render.

For drum type mixers, it is essential not to overfill the mixer.

As a dry mixed material, it is possible that some settlement or separation may occur in the bag during transit; when mixing part bags, it is especially important that the dry contents are thoroughly blended prior to mixing with water.

**Best Practice/Advised Mixing** - First add 60 to 70% water of the total water into the mixer, followed by the CLD30 Drymix and turn the mixer on. Allow the mortar to mix until the water is thoroughly distributed, then add additional water to achieve desired consistency.

Mixing time - Mix for a minimum of 5 minutes, but for no longer than 10 minutes.

Other mix methods - We accept that it is generally site practice to add the water to the mortar, providing the mortar is well mixed and not too wet, this method will be sufficient.

Quenching - Like most lime mortars CLD30 Drymix will benefit from Quenching; allow the mortar to stand for 10 to 20 minutes after mixing, before use.

Should additional water be needed after quenching to maintain workability, this can be added and mixed thoroughly through the mortar.

Once water has been added, CLD30 Drymix has an open time of at least 8 hours. Longer in colder weather.

## Packaging

This product is supplied in 25kg polythene lined paper bags.

Pallets contain 40 x 25kg bag (1 tonne pallets).



### Roundtower Lime

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The paper used is of prime quality and suitable for recycling, the packaging is a mixed material and should be recycled accordingly.

### **Storage**

This product should be stored in dry conditions, in unopened bags and clear from the ground. Always protect bags from water and damp.

Use within 6 months of manufacturing date (provided on each bag).

### **Health and Safety**

RISK PHRASES: R36 / R37 / R38 / R43

- Avoid contact with skin and eyes.
- Contact with wet mortar may cause irritation, dermatitis and/or burns.
- Contact between lime powder and body fluid (sweat, eye fluid etc.) may cause skin burns and respiratory irritation, dermatitis or burns.

SAFETY PHRASES: S2 / S24 / 25 / S26 / S37

- Avoid eye and skin contact by wearing suitable eye protection, protective clothing and gloves.
- Avoid breathing dust.
- Keep out of reach of children.
- On contact with skin and/or eyes, rinse immediately with clean water and seek medical attention.

### **Declaration**

- Roundtower lime mortars for renders and plasters are manufactured to the requirements of BS EN 998-1: 2016.
- Roundtower lime mortars for masonry mortars are manufactured to the requirements of BS EN 998-2: 2016.
- This mortar will contain no Portland Cement whatsoever.

All Roundtower products are CE marked and manufactured under an ISO9001:2015 accredited Factory Production Control System.



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