

# CLD35 Newbuild- Data Sheet

## PRODUCT

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

Binder Strength – HL5

Factory blended mortar using a fine kiln dried sand and St. Astier NHL and specialist cements, combined with carefully selected additives to improve the mortar's physical and mechanical properties, whilst maintaining many of the virtues of a pure Natural Hydraulic Lime mortar and the strength of modern cement based renders.

## USAGE

CLD35 Newbuild is a designed multi-purpose mortar, predominately used for fine render applications. It can also be used for bedding, building and pointing applications where a finer mortar is required.

Suitable for applications in contemporary construction such as modern timber frame and cavity wall. The Cornerstone Newbuild mortars offer a vapour permeable and highly flexible render, with a dramatically reduced embodied carbon content when compared to market alternatives.

We do not advise this product to be used on solid wall or traditional building fabric, unless specified or stated.

## COVERAGE

After mixing, a 25kg bag will produce approximately 13 litres of mortar.

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

## 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.
- Vapour open, highly flexible, can accommodate heat and regulate humidity.
- 1 tonne of Cornerstone Newbuild can absorb up to 30kg of CO<sub>2</sub>; the equivalent of a young tree over 3 years.
- Free from silicones, acrylics and other harmful additives.

## COLOURS

CLD35 Newbuild 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.

## 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 CLD35 Newbuild Render includes additions to try and mitigate these issues, best practice still needs to be followed.

## MIXING

A 25kg bag of CLD35 Newbuild 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 CLD35 Newbuild Render and turn the mixer on. Allow the mortar to mix until the water is thoroughly distributed, then add additional water to achieve desired consistency.

Mix for a minimum of 5 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 CLD35 Newbuild 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 Newbuild 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).

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:

- Cornerstone lime mortars for renders and plasters are manufactured to the requirements of BS EN 998-1: 2010.
- Cornerstone lime mortars for masonry mortars are manufactured to the requirements of BS EN 998-2: 2010.

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



Manufactured by Cornerstone Mortars. Supplied via Cornish Lime.