

Promix Medium Topcoat

Product Data Sheet

A dry ready mixed Natural Hydraulic Lime mortar for rendering & plastering.



Product Description

Factory blended mortar using graded kiln dried sand and Saint-Astier Natural Hydraulic Lime, 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.

Mix Ratio

2:5 as standard, other mix ratios available on request.

Binder

Saint-Astier NHL2, other binders and strengths available on request.

Aggregate

3mm down blended sand.

Usage

This Topcoat is suitable for finishing render coats, typically including; float coats and sponged coats as part of a three-coat render system. This render is suitable for use externally or internally.

Suitable for applications in construction where the binder strength is appropriate for the host background or surface.

Do not use this product below 5°C, do not use this product if freezing conditions are predicted within the following few weeks (including wind chill); we have designed other products which are more appropriate for cold weather work, please contact us for more information. Do not use this product in temperatures above 30°C.

Benefits

- Better workability & reduced shrinkage risk
- Slower drying; better curing
- Quality controlled production
- Consistency of mix ratio and working additions

Coverage

After mixing, a 25kg bag will produce approximately 15 litres of mortar.

For render applications; a single 25kg bag will cover 1.9m² at 7mm thickness on a totally flat wall. As walls are never completely flat on-site trials will always give the best indication of yield for your specific project.

Colour and Texture

All of our standard Promix Render range is entirely natural in colour. No pigments or colourants are added.

Cornerstone Promix Medium Topcoat is made with a blended yellow sand which gives a light tan coloured render when floated. This render gives a textured finish when floated with a plastic or wooden float, the finish is smoother when sponged but still moderately textured.

Please note that as sands come from a natural source there can be some variation in colour. While variances are slight, for applications where colour is important such as unpainted render, we strongly advise that each elevation is completed using render from the same batch.

Preparation

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

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 the Promix product range includes additions to help mitigate shrinkage issues, best practice still needs to be followed.

Ensure surfaces are clean and free of dust and other debris.

Mixing

A 25kg bag of mortar will require 4 to 4.7 litres of clean potable water. Always avoid making the mortar too wet, as this can promote shrinkage issues.

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 Promix 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.

Mixing Time: Mix for a minimum of 5 minutes, but for no longer than 10 minutes.

Manufactured by Cornerstone Mortars

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

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Quenching: Like most lime mortars this blend will benefit from Quenching; allow the mortar to stand for 10 to 20 minutes after mixing, before use. Whilst this is not mandatory you may find the mortar stiffens a bit if used straight out of the mixer, it may need a splash more water with remixing or just knocking back up again after 20 minutes as a result.

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.

Once water has been added, this mortar has an open time of at least 14 hours. Longer in colder weather.

Usage and Finishing

Areas of Use: Promix Medium Topcoat can be used as a fine finish coat over Promix Basecoat, or as the base coat of a two-coat application onto suitable render carrier boards with mesh in the basecoat.

Topcoat: When applying this as a topcoat to the Promix Basecoat standard render practice should be followed; control the suction from the background, apply at a target thickness of 5-7mm and finish by floating plus optionally sponging.

This blend is also suitable for scoring lines into to create a false ashlar blockwork appearance, you will want to allow for a thickness of render that is your target scratch depth plus 4mm to ensure you don't pull the coarser render aggregate from the substrate. This render should not be applied at a thickness in excess of 8mm.

Boarded Systems: When applying to render carrier boards the suction from the substrate should be adequately controlled before application. When applying the first coat a 5mm plastering mesh should be embedded in a 'two pass, one coat' type approach where the board is buttered up, the mesh pressed in with a trowel then immediately recoated to give a total thickness of around 5-7mm; the second pass should be thick enough that a scratch of approximately $\frac{1}{4}$ of the render depth can be applied to the coat without pulling on the mesh. Meshes should overlap by a minimum of 100mm at each edge. This should be damp cured and protected from direct sunlight and drying wind for a minimum of one week before applying the second coat. The second coat should be applied at a target thickness of 5mm, this can be staffed flat then floated and optionally sponge finished.

Curing: After application and finishing the render should be kept damp to promote a cure and protected from direct sunlight and drying winds for a minimum of two weeks; longer in colder weather. This can be achieved by use of sheeted scaffolding, damp hung hessian or even just unprotected regular dampening in sheltered areas.

Packaging

This product is supplied in 25kg polythene lined paper bags, palletised for shipping and handling. The packaging is a mixed material and should be recycled accordingly.

Also available as tonne bags for 3 Tonne or higher order quantities.

Storage

This product should be stored in dry conditions, in unopened bags and clear from the ground. Always protect bags from water and damp. Reseal part bags after opening if unused product is present.

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 renders and plasters are manufactured to the requirements of BS EN 998-1: 2016.

This product will contain no Portland Cement.

Document Control

Datasheet version 1.5, issued September 2024. More modern versions of this document will supersede this datasheet, with no exclusions.

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