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Natural Breathable Sustainable Durable

## Ironstone Finishing Render Data Sheet

### Product

A professional grade dry ready mixed Natural Hydraulic Lime Render

Mix Ratio – 2:5

Binder Strength – Heidelberg Materials NHL 3.5

Aggregate 3mm down washed blended sand

Factory blended using graded kiln dried sand and Heidelberg Materials Natural Hydraulic Lime binder. Combined with carefully selected additives to improve the renders physical and mechanical properties, whilst maintaining all the virtues of a pure Natural Hydraulic Lime render.

### Usage

Suitable for finishing render coats. For use externally and internally in building conservation where the binder strength is appropriate for the host background / surface.

Do not use this product below 5 degrees or if freezing conditions are predicted over the following few weeks. Do not use this product in temperatures above 30 degrees.

### Coverage

After mixing, a 25kg bag will produce approximately 15 litres of mortar. A single 25kg bag will cover 3m<sup>2</sup> at 5mm thickness onto a flat wall.

### Advantages

- Quality controlled production
- Features the feel of a modern render
- Significantly improved workability and reduced risk of shrinkage
- Slower drying; better curing

### Colours

This product is entirely natural. The Ironstone Finishing Render is made with a blended yellow sand which gives a light tan coloured render finish. This render gives a textured finish when floated with a plastic or wooden float, the finish is smoother when sponged but still moderately textured.

### Surface Preparation

Dense impervious backgrounds will require little to no dampening, whereas very porous backgrounds will require adequate dampening to prevent rapid drying. Ensure surfaces are clean and free of dust and other debris.

## **How to Mix**

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

First add around 60-70% of the water followed by the Ironstone Finishing Render and mix until the water is fully distributed, then add additional water to the desired consistency. Mix for 5 – 10 minutes. Ironstone Render may be re-worked for up to 14hrs.

Whisk mixers are also suitable for use.

Like most lime renders and plasters this blend will benefit from quenching. Allow the mix to stand for 10 to 20 minutes after mixing before use.

## **Areas of Use**

Our Ironstone Finishing Render a topcoat plaster for application on Ironstone Basecoat Render, Cornerstone Insulating Render, Wood wool render carrying boards like Celenit.

## **How to Apply**

Always wet a substrate, including previous renders layers, to control suction before use. However, you don't want to be laying onto water sitting on the surface as this will act as a slip layer.

Apply at a target thickness of 5mm and finish by floating plus optional sponging.

This blend is also suitable for scoring lines in to create a false ashlar blockwork appearance. If doing so aim for a target depth of 7-8mm to allow for 4mm scoring lines without pulling the coarse aggregate in the basecoat.

When applying to Cornerstone insulating render apply at a target thickness of 5mm and finish by floating plus optional sponging.

When applying to render carrying Wood wool boards the suction from the board should be adequately controlled before application. Apply two coats the first coat should be applied in a 'two pass, one coat' system. Applying the first pass at 5mm then embed 7mm render mesh with a trowel then immediately recoat to give a total thickness of around 7mm. Apply a scratch coat without pulling through the mesh. Damp cure and protect for 7 days before applying a second coat at a target thickness of 5mm, finishing by float and optional sponging.

## **Curing**

After application the render should be kept damp to promote the cure by mist spraying, and protected from direct sunlight / drying winds, preferably with damp hessian, for two weeks.

## Packaging

Available in 25kg polythene lined paper bags or sealed one tonne bulk bags. The paper used is suitable for recycling.

## Storage

This product should be stored in dry conditions, in unopened bags and clear from the ground. Reseal part bags after opening if unused product present. Use within 6 months of manufacturing date (provided on each bag).

## Performance

Test	Performance
Compressive strength Nmm <sup>2</sup>	2.41
Fresh Mortar Density Kg/m <sup>3</sup>	1930.26
Water Absorption Kg/m <sup>2</sup>	1.85
Flexural Strength Nmm <sup>2</sup>	.443
Water Addition Rate ml per 1kg	186.92
Dried Mortar Density Kg/m <sup>3</sup>	1695.76
Air Entrainment %	7.7

## Health and Safety

Risk Phrases	Safety Phrases
R36/37/38 Irritating to eyes, respiratory system and skin	S22 Do not breathe dust
R43 Contact with wet mortar may cause irritation, dermatitis and/or burns	S26 In case contact with eyes, rinse immediately with plenty water and seek medical advice
R66 Repeated exposure may cause skin dryness and cracking	S24/25 Avoid contact with skin and eyes
	S36 Wear suitable protective clothing



Manufactured in the UK in partnership with Heidelberg Materials Socli  
 Ironstone products are CE marked and manufactured under an ISO9001:2015 accredited Factory Production Control System



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