



Ironstone Mortars

Caring for your older building

Installation Guide

Ironstone Basecoat Plaster
On Hemp Blocks

MADE IN PARTNERSHIP WITH HEIDELBERG
MATERIALS SOCLI



Ironstone Basecoat Plaster On Hempcrete Blocks

Ironstone Basecoat plaster can be applied directly to Hempcrete blocks. The Ironstone basecoat plaster features the feel of modern plaster with extended working time, excellent workability and enhanced plasticity.

For use internally in building conservation, the addition of the fibres provides reinforcement and improved tensile strength of the scratch coat and assists to mitigate cracking on high suction backgrounds.

Manufactured using Heidelberg Materials High performance NHL 2 binder and carefully selected kiln dried sands. The Ironstone Basecoat plaster is factory blended at a purpose-built facility, which ensures end-to-end control, from selection of materials through to quality control.

Coverage - A 25kg bag will yield approx 15 litres of mortar. A single 25kg bag will cover 1.5m² at 10mm thickness onto a flat wall.

Preparation - Dampen the Hempcrete blocks and apply a harling coat. This is sometimes known as a slurry or stipple coat. The harling is a wet mix, and you can use the basecoat plaster for this purpose. This can be harled on or applied with a churn brush.

Add Water - A 25kg bag of mortar will require 4 to 4.5 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 Basecoat Plaster and mix until the water is fully distributed, then add additional water to achieve desired consistency. Mix for 5 – 10 minutes.

Quenching - Lime mortars benefit from being left for 15 mins to fatten after mixing and can be reworked for up to 14 hours

Application - Ironstone Basecoat Plaster should be used as a minimum two coat system as a single coat application will ghost through the background. A scratch coat of Ironstone Basecoat Plaster (fibred) should be applied at a target thickness of 10-12mm, this should be scratched using a crosshatch pattern scratch to approximately 1/3 of the depth of the plaster.

This coat should be left for 7 days to build up strength to take the float coat. During this time the plaster should be damp cured by mist spraying, and protected from direct sunlight / drying winds.

The Ironstone Basecoat Plaster (unfibred) should then be applied as a float coat at a target thickness of 8-10mm and should not be thicker than the scratch coat.

Finishing - Finish with a wooden or plastic float to compress the surface, lime plasters should be stiffer than cement plasters at time of floating and shouldn't drag under the float. This coat should be devil floated to give a light key and allowed to cure for 5-7 days, before application of the Ironstone Superfine Finishing plaster.

Curing - During this time the plaster should be damp cured by mist spraying, and protected from direct sunlight / drying winds, preferably with damp hessian.

Temperature - Do not use in temperatures below 5°C or above 30°C

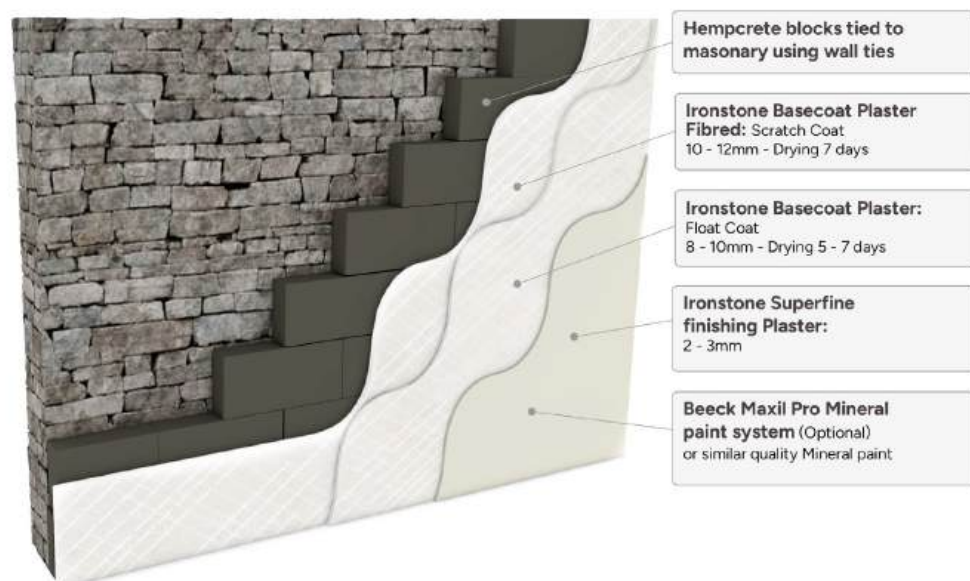
Equipment required -

- Large Hawk
- Trowel
- Float
- Sponge Float
- Hessian Roll
- Alkali Resistant Mesh

Hempcrete Blocks plastered with Ironstone Mortars Provide:

- Improved breathability
- Long term durability
- Naturally flexibility reducing the chance of cracking
- Suitable for use on listed and heritage buildings
- Environmentally friendly - Lime mortars actively absorb CO2 from the atmosphere.

INTERNAL - Application to Hempcrete Blocks





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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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