



Issue 2 – Jan 2023

Clay Base Coat – Data Sheet

Product

Womersley's Clay Base Coat Plaster is a ready to use plastering mix that simply requires 'knocking-up' prior to application.

Mix Ratio – 1:5 Wet Clay and a blend of well washed Grit and River sand 4mm down. With the addition of fine and coarse hemp straw.

For custom mix ratios and aggregates please contact us. Can be produced either with or without hemp.

It is made using our top-quality and locally sourced natural wet clay which is well seasoned prior to use.

Usage

Clay Base coat is a traditional wet clay plaster for internal use on masonry, render carrying boards, laths, brick and earth blocks or primed strawbales.

Manufactured on site in Yorkshire from well-seasoned wet clay plaster, selected aggregates and reinforced with hemp.

Clay plasters not only look beautiful but have brilliant eco-credentials for a sustainable and healthy home. They are suitable for creating comfortable modern buildings and older building refurbishment.

Coverage

Coverage approx. 1m² from 20kg at 10mm thick

Advantages

- Quality controlled production.
- Consistency of mix ratio.
- 100% natural.
- Minimal carbon footprint.
- Cool in summer and warm in winter.
- Clay is both breathable and hygroscopic, so manages damp and regulates humidity.

Surface Preparation

Suitable for use on most stable internal surfaces when properly prepared. Substrates must be moistened beforehand to improve adhesion and protect the plaster from drying out too quickly. Absorbent substrates must be saturated well. If applying to smooth concrete, gypsum board or other smooth surfaces with poor adhesion we recommend using a quartz primer or NHL bonding coat.

Womersley's Ltd

Ravensthorpe Industrial Estate, Low Mill Lane, Ravensthorpe, West Yorkshire, WF13 3LN,
Tel: 01924 400 651 Email: info@womersleys.co.uk



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When plastering on laths they should be well wetted the day before and again 2 hours before application.

When applying to strawbales then prime with a clay slip beforehand.

All junctions between surfaces and materials should be treated with care, covering them with hessian or jute.

How to Mix

Womersley's clay base coat plaster is ready to use. Any excess water on top of the tub should be poured away and the plaster knocked up.

How to Apply

A Clay base coat should be applied in 2 coats on most surfaces at approximately 10mm per coat. Excepting fired clay blocks which just need 1 undercoat of 10-12mm.

Apply in the conventional manner with a hawk and laying on trowel. The first coat should be scoured and pressed back with a wooden or plastic float. If applying a second coat, then score to provide a key and leave to completely dry. If applying a topcoat wet or dry plaster then only lightly score the second basecoat to 1mm. Immediately before applying a second coat or topcoat it is advisable to moisten the surface.

When reinforcing, reinforcement mesh must be installed on top of the second layer of basecoat and smoothed into the plaster surface with a trowel. We recommend a jute or fibre glass mesh of at least 7mm and apply with a 7-10cm overlap.

After the plaster has hardened but is still wet, even out with a float.

Drying Times

A 10mm layer should dry with 48hrs dependent on ambient conditions. Good air circulation is encouraged during and after application. Applications should not proceed when temperatures fall below 5 degrees or above 30 degrees.

Finishing

For finishing use either a wet clay topcoat or fine dry naturally coloured clay plaster topcoat.

Curing and Why

Clay plasters harden by drying and as no chemical reaction takes place, they remain workable for a lengthy period.

Packaging

Available in a 10l / 20kg tub, a 20l 35kg tub or a sealed one tonne bulk bags. The plastic used is suitable for recycling.

Storage

This product can be stored in dry conditions and should be kept away from freezing conditions. The shelf life is technically indefinite but realistically we would recommend use within 12 months.

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Performance

Test	Performamnce
Density	1722kg/m3
Aggregate size	3.5mm down
Thermal conductivity	0.97 Wm/K
Fire	Non-combustible
Sound absorption coefficient	0.090N
Embodied Carbon	0.1162 Kg CO2 eq/KG

Health and Safety

If contact with eyes, then wash eyes thoroughly with liberal amounts of water. If ingested then wash mouth with water, if large amounts are swallowed obtain prompt medical attention.

Safety Phases - No safety phrases

Risk Phases - No risk phrases

Declaration

This product contains no NHL or cement.

All Womersley's products are manufactured under an ISO9001:2015 accredited factory production control system.

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