Roundtower Insulating Plaster

Insulating Plaster is the culmination of ten years' trial and development to find the simplest, most appropriate and most cost effective solution overall for the insulation of solid wall masonry, significantly improving thermal performance and moisture management in older buildings.

With a measured K Value of 0.12, Insulating Plaster is at least 50% more insulating than the closest performing market alternative, and is priced to meet or cost less than market alternatives.

Conservation friendly and fully compatible with historic masonry, it is made using pure NHL2 Lime and a specialist toughened non-porous lightweight aggregate, to give a highly breathable, low strength but durable mortar with all the properties of an NHL2 mortar.

Fibre additions improve the flexural strength of the plaster, distributing stresses across the plaster to help reduce point loading, and negate the need for any mesh to be applied to the wall or inserted within the plaster. It is also fully fire resistant and will not swell, crumble or rot when wet. Depending on the level of insulation required it can be applied at up to 40mm per coat, making it significantly faster to apply than a conventional lime plaster.

Key Benefits

- **Improved Thermal Comfort** – By acting as a natural moisture buffer and reducing heat loss, Insulating Plaster reduces temperature and humidity fluctuations and considerably improves the warmth and comfort of your living space.
- **Lets Your Walls Breathe** – As a pure NHL2 plaster it offers a highly vapour permeable and flexible coating, helping reduce issues such as damp and decay. Impervious insulation systems are NOT suitable for old buildings.
- **Highly Insulating** – A 50mm application will improve the U value of a solid wall by 50% or more, significantly reducing heat loss.
- **Return On Investment** – If you are re-plastering anyway, use Insulating Plaster. While the application cost is effectively the same, the Insulating Plaster ultimately pays for itself, and tax incentives also apply for energy saving improvements to your home.

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- **Go Green** – Reduces Carbon Footprint by up to 500kg CO2 or more per year for an average household. By reducing heating bills you can also afford to keep your house warmer for less money.

- **Work Quicker, Apply Thicker** – Can be applied at up to 25mm per coat (or 40mm for an experienced operator), significantly reducing labour times and costs.

- **A Dehumidifier For Your Walls** – Independent testing verifies how Insulating Plaster can absorb, store and buffer excess moisture, releasing it when suitable and never trapping it within the wall, improving the air quality and comfort of internal spaces.

Materials & Manufacture

Made with pure NHL2, a specialist toughened non-porous lightweight aggregate, fibre and work aids. Insulating Plaster is CE marked and manufactured in Great Britain to ISO9001:2015.

Usage

Best suited for internal applications, applied as a backing coat through to a finish coat or finished with a lime plaster. Suitable for application onto most host surfaces.

Can also be used in sustainable construction projects as a basecoat onto natural building materials such as hemp, straw and rammed earth. (If working on weak/friable backgrounds such as cob, please contact us for further application information.)

Application & Finish

Insulating Plaster can be applied at up to 25mm per pass, or in two passes green-on-green to give up to 40mm per coat. Allow at least 24 hours between each successive coat.

Insulating Plaster has an open time of at least 18 hours once mixed. Can be finished with any good quality NHL2 plaster or fine-finish lime plaster. (Or left unfinished for a rough textured look if preferred.)

Full Application information is available in the product data sheet.

Properties and Specification	
Composition	1:3 NHL2 : lightweight aggregate by volume
Thermal Conductivity (independently measured)	0.123 W/mK (see associated report)
Dry Mortar Density	610 Kg/m3
Compressive Strength @ 28 Days (dry bar)	3.60 N/mm2
Vapour Permeability @ 28 Days	1.04 g/h.m2.mmHg
Capillary Water Absorbsion	Class W0
Reaction to Fire	Euroclass A1