

DIATHONITE INSULATION PLASTER CASE STUDY Residential Property, South London

Diathonite thermal and acoustic insulated render used to upgrade existing London property to current Building Regulations requirements

Project Details

This single skin Victorian Terrace had been protected from driving and penetrating moisture with **Newtonite** damp proof membrane for 50 years. The existing tenant wanted to upgrade the property in line with the current Building Regulation by incorporating insulation. Because the property was tenanted and being utilised as a functioning office, the insulation need to be applied externally to avoid disruption and down time for the tenant.

Methodology

Once the **Newtonite Lath** had been removed from the external elevation, **Newton Diathonite** was applied via specialist spray equipment to the entire façade element. The specification for the works involved applying a “splatter coat” of **Diathonite** to the extremely dry and porous London Stock to take any excessive suction out of the substrate. Once this was achieved **Newton Diathonite** was spray applied to the required thickness of 75mm in a single coat application to achieve the required U Value of 0.3 (W/m 2K)

After the **Diathonite** had been applied to the substrate, a specialist coloured breathable mineral skim finishing coat was applied to protect the **Diathonite** from driving and penetrating moisture.

Benefits

Newton Diathonite's unique qualities allowed for the project to achieve the required U values in a single coat application without internal disruption.

The product characteristics of Diathonite are truly unique in the UK market.

Features

- Composed predominately of cork and lime, **Diathonite** is the most “Eco Friendly” thermal render system in the United Kingdom.
- The cork content of **Diathonite** not only aids thermal performance but also has excellent acoustic properties.
- Diathonite keeps the heat in and the cold out, it lets the walls breathe!
- As a seamless system it removes any risk of cold bridging - a common problem with other systems.
- **Diathonite** also has excellent fire ratings (certified as A1) when compared to other forms of rigid insulation.

Diathonite is exclusively distributed in the United Kingdom by John Newton and Company Ltd.



1840's Victorian end of terrace with Newtonite Lath stripped off in preparation for Diathonite application



Diathonite insulating plaster professionally sprayed by trained applicators



Mineral based breathable top coat applied to Diathonite insulating plaster



Diathonite keeps the heat in and the cold out - and lets walls breathe