

General Description

ProofTherm by ProofShield is an insulating render/plaster product. Designed to be easily applied to external walls (render) or used on internal walls (plaster), it provides high levels of thermal and acoustic insulation whilst retaining vapour permeability in the structure, thereby avoiding the common issue of damp internal walls that can't breathe.

How much do I need?

This depends on the level of insulation you are aiming to achieve. A typical application would be at least 20mm. Each 15kg bag of external wall insulating render will cover approximately 2.2m². Allow 10% extra as wastage is likely to occur during application.

Preparation

All surfaces need to be free of loose material and any damaged sections should be repaired prior to insulating. Painted surfaces should be scratched horizontally to create a mechanical key. ProofBase Universal Primer should be applied with a brush or roller. This will prevent the substrate from absorbing too much water from the ProofBase Insulating Render and will provide an ideal adhesive key for optimum results.

Mixing

One 15kg bag of ProofTherm Insulating Render should be mixed with approximately 15 litres of clean water. Put 80% of the the water in a clean bucket then add the ProofTherm and mix with an electric mixer at around 100-150 RPM for 2 minutes. Add the remaining water and mix until a thick, creamy consistency that sticks to an upturned trowel has been achieved.

Application

Application can be done by hand with a trowel or using a render pump. If using a trowel, throw a trowel full at a time in rows across the wall. You will have time to even these out into a flat surface as you go. Aim for a maximum of 1.5 cm depth in a single application then smooth this off with a long, straight edge to get a homogenous finish. Wait at least 4 hours until almost dry before applying further layers. You can build up layers to any depth you require up to a maximum of 10cm

Using Mesh Re-enforcement

If you are concerned that there could be movement in the building that might give rise to cracks, you can use re-enforcing mesh embedded into any suitable basecoat of your choice before applying ProofTherm to the wall. You can also use mesh embedded into a basecoat *on top of* the ProofTherm insulating layer if required. Mesh cannot be embedded into ProofTherm because the fibres and insulating aggregates will not allow it.

Finishing Off

The primary characteristic of ProofTherm is its insulating properties. It is not designed to be a stand-alone external or internal façade finish and any installation should be completed with a decorative top coat of ProofDeco which is a Silicon modified, breathable, tough, mineral render top coat. This can be painted with any suitable external paint (Silicon or Acrylic based to retain vapour permeability and to provide long lasting protection).

When used on internal walls, prime the ProofTherm Insulating plaster before finishing off with whatever plaster finish you prefer.

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