

Masonry Protection Cream

▶ When external walls get wet their thermal resistance lowers and valuable heat escapes. They become less effective at keeping heat in.

▶ Problem

Rain penetration can lead to damaged brickwork, internal decor damage and damp patches if left untreated. Heat can escape and this can lead to increased bills and a larger carbon footprint.

The UK government has set a target of an 80% reduction in carbon emissions from buildings by 2050 (Climate Change Act, 2008). Even now, a third of Britain's housing stock has solid wall construction and this is predominantly single skin brick or stone (English House Condition Survey, 2007).

Often certain types of wall are difficult to insulate conventionally as:

- ✓ The installation of cavity wall insulation isn't possible
- ✓ External insulation may be costly and unattractive
- ✓ Internal insulation can be impractical and takes up valuable floor space

▶ Solution

- ✓ DryWall Thermotek will repel rain penetration creating a water-repellent barrier preventing water ingress
- ✓ One single coat application is scientifically proven to reduce heat loss in single skin masonry, and can provide an energy bill saving of up to 29%

▶ Features & Benefits

- ✓ Colourless, breathable, insulating, water repellent treatment for brick, concrete and stone walls
- ✓ Deeply penetrating cream that is applied to the wall surface using a roller or brush
- ✓ Improves the thermal resistance of masonry by keeping it dry, thereby saving energy
- ✓ Improves the performance of cavity wall insulation by protecting it from moisture
- ✓ Protects against rain penetration

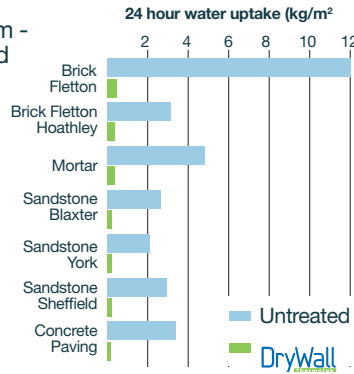


DryWall
Thermotek

Masonry Protection Cream

Protecting Against Rain Penetration

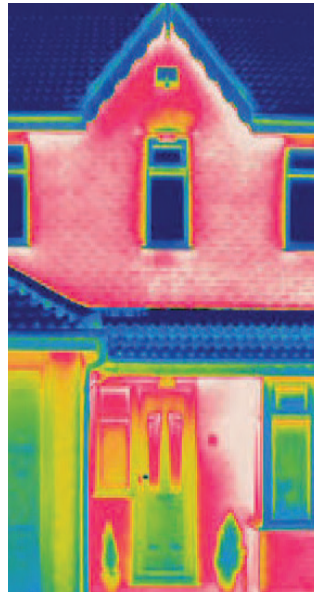
- DryWall Thermotek penetrates up to 12mm - much deeper than traditional liquid applied masonry water repellents.
- As well as increasing life expectancy this also improves DryWall Thermotek's crack-bridging ability, as it's able to provide water-repellency beyond the depth of small cracks.
- DryWall Thermotek has been tested to EN ISO 15148:2002 (E), demonstrating its effectiveness on a variety of substrates including concrete, mortar, brick and sandstone.



The graph (right) shows that the water uptake for DryWall Thermotek treated samples was considerably lower than for untreated samples.

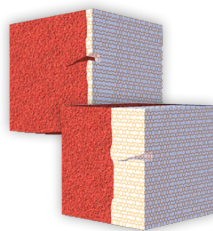
Improving the Thermal Performance of Masonry

- Improving the thermal resistance of walls through the use of conventional insulation is not always practical. Many properties in the UK are built using single skin walls, making them unsuitable for cavity wall insulation.
- The installation of internal insulation can be disruptive and takes up valuable living space whilst externally applied insulation is often unattractive.
- It is widely documented that porous masonry materials such as brick, stone, concrete, and mortar are worse insulators when they are wet. By preventing the absorption of water, DryWall Thermotek ensures that the insulation properties of the masonry are maximised.
- Tests carried out showed that energy savings of up to 27% are possible when DryWall Thermotek is used on single skin walls, due to reductions in thermal conductivity. When the effects of reduction in evaporative cooling are taken into account, total energy savings of up to 29% are possible.



Breathable and Long Lasting

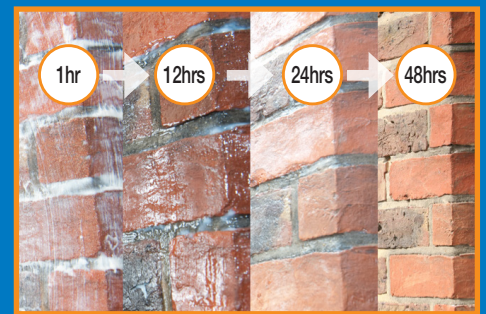
- DryWall Thermotek is based on carefully selected silanes and siloxanes which line the pores of the masonry to form a waterrepellent silicone matrix.
- It works by lining the pores rather than blocking them, so the masonry is allowed to breathe and does not suffer from increased frost damage (spalling).
- Due to its unique formulation and deep penetration, DryWall Thermotek is resistant to UV light and other forms of degradation, resulting in a life expectancy of 20-30 years.



Overview

When masonry gets wet, it gets cold. This means that heat escapes more readily, creating a cold building.

- ✓ You can protect your home from penetrating damp and increase the thermal efficiency of masonry with DryWall Thermotek
- ✓ With its unique colourless cream formulation, a single coat application will protect brick, stone and concrete from rain penetration for 20-30 years
- ✓ Within 48 hours the original looks and features of the masonry will be retained
- ✓ DryWall Thermotek lines the pores rather than blocking them, allowing the masonry to breathe



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