

Anti-Condensation Coating

Condensation is directly associated with mould growth, which can cause severe and permanent spoiling of decorative surfaces. Warm air can hold more water vapour than cold air and condensation forms when this moisture laden air comes into contact with a cold surface. The air cools to the point that it can no longer hold the water vapour which then condenses to a liquid as the 'dew point' is reached.

Problem

On impervious surfaces beads of water can appear, but on permeable surfaces such as wallpaper the condensation is absorbed. Continuous and severe condensation can cause problems such as discolouration, staining, peeling of wallpaper, blistering of paint and mould growth. Black mould spreads like any other organism; it reproduces and grows in moist and damp areas.

Where there is moisture, there is bound to be mould and mildew.

Solution

Warmerwall Anti-Condensation Coating

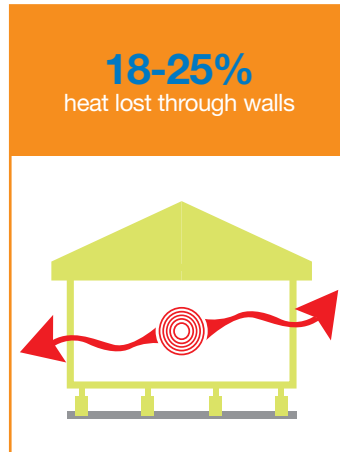
This water based internal emulsion will drastically reduce the formation of condensation by utilising hollow glass bubble technology. Glass bubbles are 100% non-toxic hollow spheres about the thickness of a human hair. When incorporated into a paint film they act as miniature thermos-like bottles, providing a thermal barrier between cold surfaces and the warmer ambient temperature within a living space. As the air is insulated against the colder wall surface, condensation is controlled. This in turn inhibits mould and fungal growth.

The thermal properties of Warmerwall Anti-Condensation Coating can also allow homeowners to make a potential saving on their energy bills and reduce their carbon footprint.

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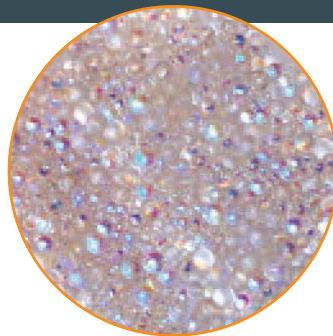
How it Works

- ▶ The most cost effective way to save heat is to stop it escaping in the first place. Every surface that has a temperature difference on the other side will see heat migrating through the wall towards the cold outside air.
- ▶ When surfaces have been coated with Warmerwall Anti-Condensation Coating, heat loss is reduced because of the coating's ability to block heat transfer.
- ▶ Walls treated with the Anti-Condensation Coating actually feel warmer to the touch because the heat from your hand is being reflected back, instead of being drawn to the colder surface of the wall and escaping externally.



Scientifically Tested

- ▶ Independent laboratory testing has shown that surfaces coated with Warmerwall Anti-Condensation Coating have the ability to retain heat up to five times longer than conventional emulsions.
- ▶ Further tests have shown that a coated surface maintained a +5°C differential between the substrate temperature to that of an uncoated surface. This 5°C prevents the air condensing onto the wall surface, even if there is high humidity in the room (up to 90%). The unique spherical shaped glass bubbles are specially formulated to produce stable voids, which results in low thermal conductivity (0.070 W/mK).
- ▶ This product is excellent for insulating solid walled properties which cannot benefit from conventional cavity wall insulation.



Energy Saving

- ▶ Warmerwall Anti-Condensation Coating has low shrinkage properties when drying, compared to conventional emulsions - meaning there are less water molecules sitting in micro-cracks in the paint surface. These micro-cracks occur when standard paint dries and shrinks. Because it takes 2400kJ to evaporate one litre of water, a large amount of additional energy will be used to evaporate this water and heat up a cold room with a high level of humidity in the wall/coating.
- ▶ The glass bubbles within Warmerwall Anti-Condensation Coating help to form a much smoother surface with reduced micro-cracking. The glass bubbles are impermeable to water diffusion and due to the dry film packing factor being 50%-70%, evaporation of water from the wall and absorption of humidity by the wall are reduced.

Features & Benefits

- ✓ Reduces the formation of water droplets
- ✓ Helps to reduce mould and fungal growth
- ✓ Resists thermal transfer through walls and ceilings
- ✓ Low thermal conductivity
- ✓ Helps to reduce heating costs
- ✓ Helps to improve the room climate
- ✓ Helps to control odours
- ✓ Easy application, minimal disruption and preparation needed to wall surfaces, avoiding mess, saving time and money
- ✓ Can be painted over
- ✓ Useful for insulating solid walled properties which cannot benefit from conventional cavity wall insulation

Why Peter Cox?

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