Condensation can affect both old and new houses and 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 the 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 and condensation forms on the cold surface.

On impervious surfaces beads of water can appear. 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 excess moisture, there is bound to be mould and mildew.

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 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 growth.

The thermal properties of Warmerwall Anti-Condensation Coating have the added benefit of enabling home owners to make potential savings on their energy bills and reduces their carbon footprint.
Anti-Condensation Coating

How it works

One of the most cost effective ways to save heat is to stop it escaping in the first place. Every surface in a home that has a temperature difference on the other side of it will see heat migrating through the wall towards the colder outside air. However, 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 Warmerwall 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. The same principle can be applied to warm air from heating systems.

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 is a superb product 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 which provides further energy saving. Conventional emulsions can have a large amount of water molecules sitting in micro-cracks in the paint surface. These micro-cracks occur when standard paint dries and shrinks. It is worth bearing in mind that it takes 2400kJ to evaporate one litre of water. This means that 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.

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