



## Controlling Condensation and Mould

### 1. What is condensation

There is always some moisture in the air, even if you cannot see it. If air gets cold, it cannot hold all the moisture produced by everyday activities and some of this moisture appears as tiny droplets of water, most noticeably on windows on a cold morning. This is condensation. It can also be seen on mirrors when you have a bath or shower and on cold surfaces such as tiles or cold walls.

Condensation occurs in cold weather, even when the weather is dry. It doesn't leave a 'tidemark' round its edges on walls. If there is a 'tidemark' this dampness might have another cause, such as water leaking into your home from a plumbing fault, loose roof tiles or rising damp.

Look for condensation in your home. It can appear in or near windows, in the corners and in or behind wardrobes and cupboards. Condensation forms on cold surfaces and places where there is little movement of air.

### **Problems that can be caused by excessive condensation**

Dampness caused by excessive condensation can lead to mould growth on walls and furniture, mildew on clothes and other fabrics and the rotting of wooden window frames. Also damp humid conditions provide an environment in which house dust mites can easily multiply. The presence of mould and dust mites can make existing respiratory conditions such as asthma and bronchitis worse.

### **First steps against condensation**

You will need to take proper steps to deal with condensation, but meanwhile there are some simple things you should do straight away.

Dry your windows and windowsills every morning, as well as surfaces in the kitchen or bathroom that have become wet. Wring out the cloth rather than drying it on a radiator.

### **First steps against mould growth**

First treat the mould already in your home, then deal with the basic problem of condensation to stop mould reappearing.

To kill and remove mould, wipe down or spray walls and window frames with a fungicidal wash that carries a health and safety executive (HSE) 'approval number' and ensure that you follow the instructions for its safe use. These fungicidal washes are often available at local supermarkets.

Dry-clean mildewed clothes and shampoo carpets. Do not try and remove mould by using a brush or vacuum cleaner.

After treatment, redecorate using good quality fungicidal paint and a fungicidal resistant wall paper paste to help prevent mould recurring. The effect of fungicidal or anti-condensation paint is destroyed if covered with ordinary paint or wallpaper.

But remember the only lasting cure for severe mould is to get rid of the dampness.

## 2. What causes condensation

There are four main contractors that cause condensation:-

- Too much moisture being produced at home.
- Not enough ventilation
- Cold surfaces
- The temperature of your home

You need to look at all of these factors to cure condensation problem.

## 3. Moisture produced in the house

Our everyday activities add extra moisture to the air inside our homes. Even our breathing adds some moisture (remember breathing on cold windows and mirrors to fog them up?) one person asleep adds half a pint of water to the air overnight and at twice that rate when active during the day.

Reduce the potential for condensation by producing less moisture , to give you some idea as to how much extra water this could be in a day, here are a few illustrations:

2 people at home for 16 hours  
3 Pints



A bath or shower  
2 Pints



Drying clothes indoors  
9 Pints



Cooking and use of a kettle  
6 pints



Washing dishes  
2 pints



Bottled gas heater (8 hours use)  
4 pints



**Total moisture for  
one day = 26  
pints or 14.8 litres**

Hang your washing outside to dry if it at all possible, or hang in the bathroom with the door closed and a window slightly open or extractor fan on. Don't be tempted to put it on radiators or in front of a radiant heater.

If you use a tumble dryer, make sure it is vented to the outside or that it is of the new condensing type.

Always cook with the pan lids on and turn the heat down once the water has boiled. Only use the minimum amount of water for cooking vegetables.

When filling your bath, run the cold water first then add the hot – it will reduce the steam by 90% which leads to condensation.

Try to avoid use of bottled gas heaters; they produce about 8 pints of moisture from an average-sized gas cylinder. (Tenancy Agreements may not allow the use of this type of heater).

Don't use your gas cooker to heat your kitchen as it produces moisture when burning gas. (You might notice your windows misting over).

#### 4. Ventilation of the home

Ventilation can help to reduce condensation that has built up overnight by 'cross-ventilating' your home – opening to the first notch a small window downstairs and a small one upstairs. (They should be on opposite sides of the house or diagonally opposite if you live in a flat.) At the same time, open the interior room doors, this will allow drier air to circulate throughout your home. Cross-ventilation should be carried out for 30 minutes each day.

Note; Make sure that accessible windows will not cause a security problem, remember to close them when you go out.

Ventilate your kitchen when cooking, washing up or washing by hand. A window slightly open is as good as one fully open. If you have one, use your cooker extractor hood or extractor fan.

Keep kitchen and bathroom doors closed to prevent moisture escaping into the rest of the house.

Ventilate your kitchen and bathroom for about 20 minutes after use by opening a small top window. Use an extractor fan if possible – they are cheap to run and very effective.

Ventilate your bedroom by leaving a window slightly open at night, or use trickle ventilators if fitted. (but again remember your security)

To reduce the risk of mildew on clothes and other stored items, allow air to circulate round them by removing 'false' wardrobe backs or drilling breather holes in them. You can place furniture on blocks to allow air to circulate underneath. Keep a small gap between large pieces of furniture and the walls and where possible place wardrobes and furniture against internal walls. Pull shelves away from the backs of wardrobes and cupboards. Never overfill wardrobes and cupboards. Never overfill wardrobes and cupboards as it restricts air circulation.

#### 5. Cold surfaces in your home.

Condensation forms more easily on cold surfaces in the home for example walls and ceilings. In many cases those surfaces can be made warmer by improving the insulation and draught proofing.

Insulation and draught proofing will also help keep the whole house warmer and will cut your fuel bills. When the house is warmer, condensation becomes less likely.

Loft and wall insulation are the most effective forms of insulation.

If you install any draught proofing observe the following guidance.

Do not draught proof rooms with a condensation problem, or where there is a heater or cooker that burns gas or solid fuel.

Do not block permanent ventilators or airbricks installed for heating or heating appliances.

Do not draught proof bathroom or kitchen windows.

If you have any reason to believe that your home could benefit from an improvement to its loft or wall insulation, please contact your landlord to enquire about the possibility of such improvement.

## 6. The temperature of your home

Warm air holds more moisture than cooler air which is more likely to deposit droplets of condensation round your home. Air is like a sponge; the warmer it is, the more moisture it will hold. Heating one room to a high level and leaving other rooms cold makes condensation worse in the unheated rooms. That means that it is better to have a medium-to-low level of heat throughout the house.

Keeping the heating on at low all day in cold weather will help to control condensation, but keep a check on your meters to check how much it is costing.

If you have a heating system such as under floor electric but are afraid to use it because you've been told it is expensive to run, please contact the Energy Efficiency Advice Centre (EEAC) for an advice guide on how to control your system on FREEPHONE 0800 512 012. You might find that it costs less to run than you expect or have experienced in the past.

If you don't have heating in every room, you could keep the doors of unheated rooms open to allow some heat into them.

To add extra heat to room without any form of installed heating, it is better to use electric heaters, for example oil-filled radiators or panel heaters, on a low setting. Remember you should not use portable bottled gas heaters in homes suffering with condensation as they give out a lot of moisture whilst in use. Contrary to popular belief, it is actually cheaper to heat a room with on-peak electricity than by using bottled gas heaters.

If you have a freezer it is a good idea to put it in a space suffering from condensation as the heat from the motor should help to keep condensation at bay.

Be careful not to 'over-ventilate' your home when it is cold, as it will cause the temperature inside to drop and make condensation more likely. It will also increase your heating costs.

If you think that the heating or heaters installed in your home are insufficient to give enough heat to combat condensation, please contact your landlord to enquire about the possibility of an improvement to your heating.

If you have chronic medical condition and require extra warmth, you might wish to contact your landlord to enquire about the procedure for obtaining a medical referral for heating improvement.

**7. To control condensation remember the key points!**

**Reduce the amount of moisture  
you produce**  
(See actions in section 3)

**Improve ventilation**  
(See actions in section 4)

**Reduce the number of cold  
surfaces in your home**  
(See actions in section 5)

**Maintain an adequate  
temperature**  
(See actions in section 6)

To see what you can do relatively cheaply on a D-I-Y basis, ring the Energy Efficiency Advice centre for a copy of "it's criminal to waste energy – a guide to saving cash and energy in the home by Alvin Hall"

For information on how to run heating systems economically please contact FREEPHONE 0800 512 012 or visit [www.energysavingtrust.org.uk](http://www.energysavingtrust.org.uk).