



**WATER DAMAGE
RESTORATION**

Drying of Walls and Massive Floors



APPLICATION



**Property Damage
Restoration**



**Temporary
Humidity Control**



**Property Damage
Prevention**

Overview

Almost all modern buildings have load bearing walls built from either concrete or brick. Floors are normally constructed from concrete with a screed on top or a self levelling concrete. These dense, hard materials are tough but need to remain dry in order to maintain structural integrity.

Modern floor surfaces like wood parquets, carpets and plastic paints also demand dry conditions to keep their design and shape, while continuing to support the architect's vision and an odour free environment.

Munters offers decades of world-wide experience in the dehumidifying of concrete and brick. Using a combination of energy efficient, high performing, desiccant dehumidifiers, supported by air movers and heaters, Munters can create the optimum environment for efficient drying.



Hoses are used to evenly distribute the air.

Concrete and brick are the two most common non-organic materials used in construction. They are used everywhere and in every climate thanks to their robustness and ability to withstand the forces of nature. Nevertheless, if they get wet for long periods they may start to lose structural qualities and begin to decay. Embrittlement of old brick and armour corrosion in concrete are regular issues, so too are small amounts of water which can seep into the brick/concrete and cause odour problems.

Modern constructions are often covered with expensive wood parquets, plastic paints, vapour barriers, plastic carpets and metal sheets. If such materials are applied to a damp surface, problems with mould growth, the blistering of paint, corrosion, and glue break-down can occur.

Creating a dry climate when building a new house is increasingly important for contractors, property owners and other interested parties. By consulting Munters we can create a dry well ventilated environment, right from the start.

Munters has developed unique methods to enable the fast and effective drying out of even the most complicated structures. Munters' experienced technicians are trained to find sources of water penetration, measure the scope of the damaged area and then select and apply suitable equipment for drying.



WATER DAMAGE
RESTORATION

Drying of Walls and Massive Floors



PROCEDURE

Firstly, Munters' technicians use state-of-the-art measuring equipment to assess the scope of the damaged area and the depth of the moisture penetration. The next step in the dehumidification process is to remove excess free water and moisture from the air, using dehumidifiers if necessary, together with air movers. Munters' technicians calculate the required amount of dehumidifiers and fans in order to optimise the drying process.

Before drying the construction, it is important to remove all vapour tight surfaces such as plastic carpets, plastic paint or plastic foils, as these slow down the moisture transportation. The basic principle is to reduce the moisture level in the surrounding air and with this, the vapour pressure. This low vapour pressure will start to dry the wet material. Extra heat is sometimes required to compensate for the energy required to transform the water in the material into vapour, for which Munters has developed its own proprietary techniques to ensure that heat is transported to the right area.

By maintaining a stable moisture level, Munters are able to provide a continuous drying process and ensure moisture is moving in the desired direction. This process is monitored and controlled until Munters' technicians can measure that the construction is completely dry.



RESULTS

Munters' procedures establish a dry construction, after water damage or after construction work on a new building. By securing low moisture levels, workers are able to work in a more comfortable climate and inhabitants are able to make a faster return to their homes.

BENEFITS

- Reduce and eliminate possible mould growth, bad odour and blistering paint
- Enable the customer to focus on completing the construction programme on time without having to factor in weather conditions
- Enables contractors to plan work
- Policy holders can move back into a dry building, restored to standards that are the same or higher than before the accident.



Munters effective dehumidifiers enable the drying process to continue while residents remain in their homes.



To efficiently dry a specific area, a temporary enclosure is created.