



DAMP CONDENSATION

CONDITIONS OF USE AND MAINTENANCE

DEFINITION:

Humidity by condensation is produced by condensing the existing water vapor in the interior environment on the cold enclosures. Condensation damp appears in the coldest parts of the building, mainly exterior or façade walls and window panes.

The most common manifestations of humidity by condensation are mold, fungus, spots in the form of shine on the walls and water, a product of condensation, as well as bad smells of humidity.

They must not be confused with dampness by filtration, since this dampness comes from the outside of the building, in the dampness by condensation the origin is inside, so the verification is simple when checking that only the interior surface face is damp.

The indoor air in a home contains a certain amount of water vapor that varies depending on the season and the use of the home. Depending on the degree of humidity and the ambient temperature, the water vapor changes its state to a liquid, dew point.

Example: at 18°C and 80% humidity the dew point is not reached, at 14°C and 80% humidity the conditions have been reached for water to condense. A room with a humidity of 80% at 20°C but with poorly insulated exterior walls that have a surface temperature of 14°C will favor the appearance of damp spots due to condensation.

THE SPRAYED CORK:

DECOPROYEC SPRAYED CORK is a waterproof, breathable coating that also thermally conditions the walls on which it is applied.

In this type of condensation damp situation, the recommended application is on interior walls affected by damp.

The explanation is very clear, since this application will considerably improve the surface temperature of poorly insulated enclosures, avoiding the existence of cold surfaces where ambient humidity condenses.

In cases where the lack of generalized insulation of the house is the cause of humidity due to condensation, the exterior treatment with Sprayed Cork will improve the thermal behavior of the building envelope, increasing its thermal inertia and





improving the interior temperatures of the envelope, resolving the existence of interior cold surfaces where humidity due to condensation can be generated.

REQUIRED CAUSES AND CONDITIONS:

The main causes of the appearance of humidity by condensation are:

- Insufficient ventilation: Currently the houses are very tight to avoid heating losses, this together with habits such as drying clothes inside the house, the use of the kitchen or bathroom increase the degree of interior humidity.

A correct ventilation of the house favors the improvement of the quality of the indoor air and considerably reduces the possibility of the appearance of condensation.

- Poor heating regime: Poor heating regulation or the lack of it in habitable rooms with sudden variations in temperature or low temperature, implies condensation problems: on walls, windows, etc.

An interior temperature below 15°C and a high degree of humidity will favor the appearance of condensation.

- Deficient thermal insulation: Poorly insulated walls, thermal bridges, carpentry and glass, in short, cold spots that allow the ambient humidity inside the house to change to a liquid state, formed as water.

Sprayed Cork is responsible for this, since its interior or exterior application will improve the thermal behavior of the building envelope, reducing the possibility of the appearance of humidity due to condensation.

