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Wireless Electro-Physic System

The effective solution against moisture by capillarity

Moisture by capillarity can be found in any country in the world, both desert as Algeria and Saudi Arabia, as Nordic countries and humid environment as Canada, Norway and Great Britain...

During last thirty years different methods have been used to fight this type of moisture:

- **Fixing plates, ceramic tiles or marble, or waterproofing layers up to the humidity location.**
- **Waterproofing Injection resins.**
- **Environmental Dehumidifier**
- **Aerating walls or foundations**
- **Electro-osmosis cables**
- **Passive Systems taking advantage of earth magnetism.**
- **Wireless Electro-osmosis**
- **Wireless Electro-Physic System**

Fixing plates, ceramic tiles or marble, or waterproofing layers up to the humidity location implies hiding the problem because moisture continues damaging the wall. After certain time moisture will appear over the plates, tiles installed.

Waterproofing injection resins is a routine system for lots of construction professionals but presents several disadvantages.

Holes should be done in the wall every 10 cm at socket level, which affects aesthetics and the solidity of the wall structure.

This method is applicable to neither old walls with non-homogeneities nor the ones built with blocks with cavities or holes. Apart from spending a lot of waterproofing material, it is nearly impossible to get a layer that avoids moisture rising by capillarity.

In the case of walls with solid brick where resin is injected, a waterproof layer that prevents moisture up through that area is obtained, but professional rehabilitators are well aware that water always finds alternative paths, and moisture by capillarity can appear in other walls of the house. This implies that all walls of your plant will be holed at a very high cost in materials and labor hours.

Moisture that has climbed up the walls before applying waterproofing can only be removed by evaporation from the walls. The disadvantage is that these walls cannot be painted or restored until they have dried completely.

This method does not solve moisture that rises in between the floor tiles.

Environmental dehumidifiers remove the water existing in the environment by condensing it in a container which should be emptied frequently.

Such devices ease the evaporation of the wall, but they do not prevent water from rising by the wall and they help the movement of water through the pores of the wall, so the problem continues.

Walls or foundation aerators have been used in some cases to attempt water in walls and foundations evaporate outwards. Holes are made each 40 cm in the wall and a porous ceramic tube that absorbs moisture by evaporation is introduced to direct water outwards.

This system is just palliative for humidity, but it does not solve it because eventually the dissolved salts in water plug the pores of the ceramic tubes. In addition to the aesthetic problem of filling hole walls, the results after two years are not satisfactory because capillarity continues affecting adjacent walls.

Electro-Osmosis with cables have been a solution that reverses the rise of water through the walls, but it has the disadvantage that you have to insert a cable into the wall along all rooms. This represents performing tracks in walls and restoration after installation. This system only makes sense during the construction of the building, but its technology has been surpassed during the past 10 years.

Passive systems taking advantage of terrestrial magnetism have appeared about 7 years ago. Since there is no energy consumption, its effects are very slow (over 2 years) and very focused surrounding the equipment.

Wireless Electro-Osmosis is an improvement because they do not need to insert wires in the walls, but it is needed grounding for its proper performance.

Since this system applies radio-frequency range, transmission is adequate through the air and the surface of the walls. However, it does not penetrate well inside thick walls, consequently, the drying time can reach more than 2 years and its consumption is around 10W.

Wireless Electro-Physic system

Considering that water molecules are small dipoles, and that it is necessary that all negative poles should be aligned upwards so that water rises by capillarity, the electro-physic system emits an electromagnetic signal that depolarizes the set of water molecules and rejects them to the subsoil, up to 50 cm below ground.

The advantage of the system is that the transmitted signals belong to the audio frequency range. This type of signals transmits very well through old and thick walls and even better if they are wet. This focuses its action where there is moisture, both in floor and walls.

The equipment is manufactured for different radii of action ranging from 4m to 30m. The effect of several systems can overlap in order to cover huge areas.

Equipment should be preferably installed in a main wall with humidity. It consumes only 0.7W; in other words, it consumes less in one year than a television in one day.

Installation does not require works, noise or dust. It is only necessary to do one fixing hole with a 5mm drill, and fix the equipment on the wall like a picture.

The system operates satisfactorily as it is demonstrated by more than 1200 units sold during last three years without any complaint.

This equipment is certified internationally, according to either electric-magnetic security, or safety for the health of people animals and plants standards.

You can learn more about its advantages, and warranties by visiting our website:

www.humitat-stop.com, or the blog: www.humitat-stop.blogspot.com