



**Act against humidity,
and re-discover your comfort.**



MURPROTEC®

EFFICIENT AND ABSOLUTE TREATMENTS AGAINST HUMIDITY

Humidity in your home? Call a professional before it is too late!

Sulphure? Black stains on the wallpaper? Skirting boards that warp? A smell of mushrooms? ... Any humidity stain that appears in your house must be taken very seriously, or you take the risk of having the damp expand and maybe cost you a lot of money. House owners are often tempted to resort to DIY systems. Their deceptions is, unfortunately very frequent ...

Professionals attack the causes of the problem.

A professional will seek to treat the origin of the problem in order to eliminate the effects. The causes of this humidity, however, can be complex : capillary rising, infiltrations of a pluvial origin, condensation, a leak in piping that has gone unnoticed ... And this presence in your house places your property and even the health of your family in danger. It indeed favours the development of mushrooms and acaroids that constitute a grave danger for children and the whole family.

In brief, humidity can really become a tragedy in a family. The assistance of a professional is therefore everything but a luxury!

House owners, It is your property that is deteriorating!

It is in your interest to take the menace that humidity brings to your house seriously. An everyday predicament has every chance of becoming a grave problem. The clues that are visible on the surface often constitute the symptoms of a deeper problem. Humidity menaces the structure of the building as well as the contents and the occupants : rotting of the woodwork, mushrooms (dry rot), damage to the paint work and wallpaper, deterioration of furniture ... You risk very simply finding yourself in an insalubrious house.



Humidity, the cause of grave respiratory illnesses

Scientific studies have been carried out on adolescents that suffer from respiratory illnesses*. 83% of asthma, asthmatic bronchitis and chronic bronchitis and 87% of chronic rhinitis affected adolescents that lived in buildings that were too humid. 20 to 30% of us suffer from respiratory allergies. Two times more than 20 years ago! The Louis Pasteur Institute for Public Health explains this increase by our life style** : «We live inside more, at home or in the office. Since the petrol crisis, we insulate too much and do not ventilate enough.»

* Source : Journées Nationales de la Société Française d'Allergologie, Strasbourg 27th. and 28th. of May 1988. Report presented by the O.C.G. Adan University of Eindhoven, The Low countries.

** Source : newspaper "Le Soir" dated 31 December 1998.

Humid house, Unhealthy house

Thousands of people **have now found a solution** thanks to the intervention of the MurProtec specialists. Our company successfully deals with thousands of sites each year and improves the living conditions in houses that, otherwise, would continue to be dangerous for the health of their inhabitants.



Call upon MurProtec, the European Leader in the fight against humidity.

• **More than 45 years experience**

The MurProtec Company can be proud of its experience of more than 45 years in the fight against humidity. Founded in 1954, MurProtec has progressively become the European leader in the treatment of humidity. Their specialities? The phenomena of capillarity, condensation, air treatment, waterproofing of buried brick work and the protection of frontages. Within the European countries where we are present, the MurProtec teams advise, design and apply unique and patented procedures. You can not benefit from such a chain of experience anywhere else!

• **The new silicone micro-emulsion formula**

The success of MurProtec relies upon advanced techniques and scientific methods. One amongst these is based on the principle of CSM (Concentrated Silicone Micro-emulsions). These products react with water before changing into dry polysiloxanes. For ecological reasons MurProtec avoids the use of organic solvents and prefers emulsions in an aqueous phase. A patented technique allows the modification of these raw materials in order to obtain a grading between 40 and 70 nm. The particles of these micro-emulsions are so small that they can penetrate into the smallest capillaries of the brick work that is to be treated.

• **A 30 year guarantee***

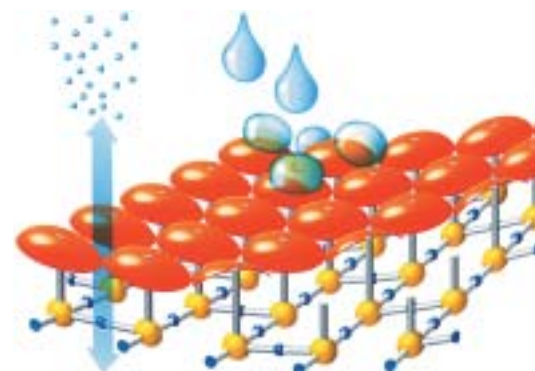
A guarantee that is unique in the field of construction, that our experience and the quality of our services allow us to offer to you. We treat more than 5 to 6000 sites per year, with this same efficiency guaranteed. The MurProtec products are certified by the very best technical and scientific organisms of the E.U. and our processes have been recognised by the Veritas office. It is in your interest to trust MurProtec : a partner that benefits from a large financial capacity and has the advanced scientific experience that is indispensable in order to treat the problem that you are confronted with today. All the members of personnel of MurProtec take the commitment to rid you of your humidity problem.

* concerning the treatment of rising capillary phenomena

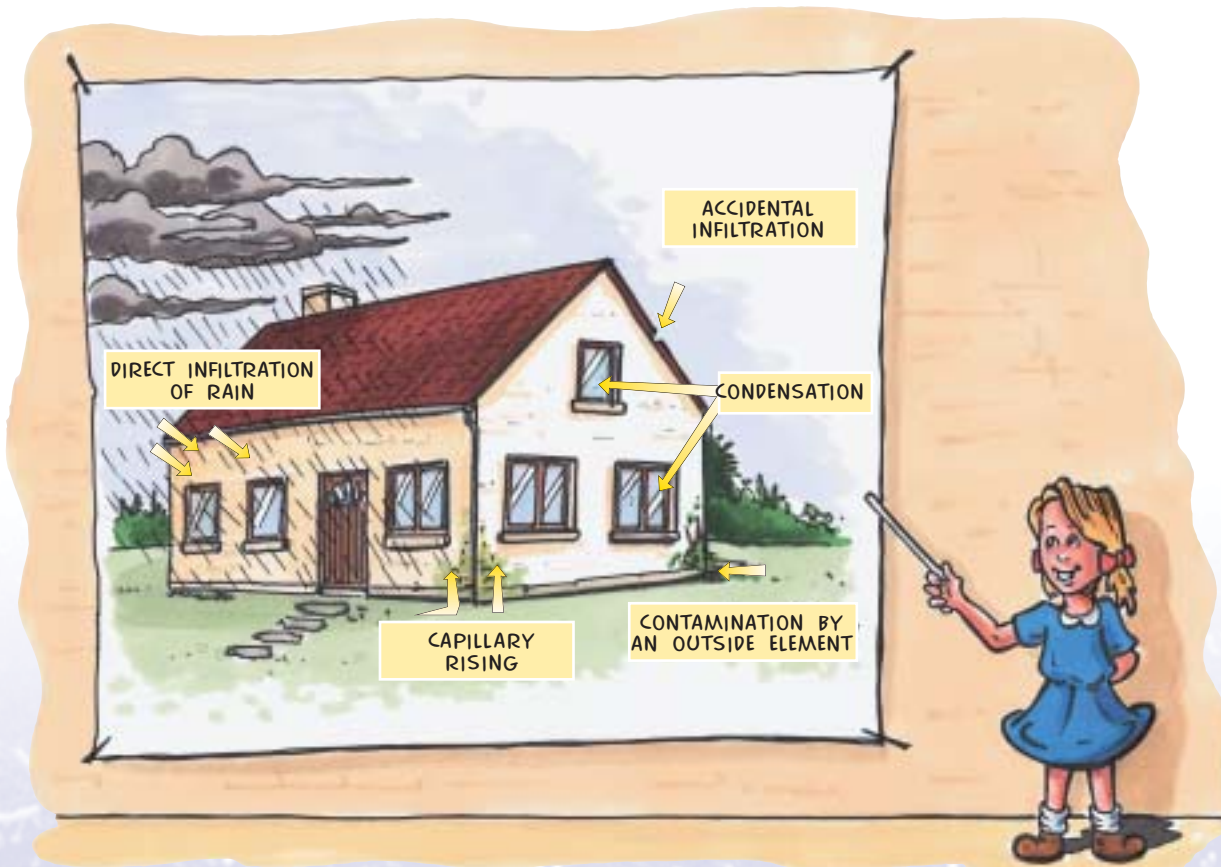


MURPROTEC®

Efficient and final treatments of humidity.



Your walls are humid. The principle causes of the problem and their consequences.



The causes of humidity can be varied : infiltration by rain, condensation, capillary rising, hygroscopic salts, contact with the ground ... **Several sources can often intermix and make a precise diagnostic more complex.** This is why the help of a professional is absolutely necessary if one wishes to identify with certitude the cause of the problem and the solution to be implemented.

MurProtec perfectly masters these diverse situations, notably because of their extensive experience and the multitude of problems that they have already encountered in the past and resolved with efficiency.

1. Capillary rising

Almost all brick work that is in contact with the ground has to cope with capillarity phenomena provoking ascending humidity. This crosses through the foundations, rises up the walls and causes the rupture of the jointing at the level of the skirting boards on the ground floor. One can notice that even materials that are not very porous, such as blue stone, the porphyry, and silica gravel are affected by this kind of humidity caused by the mortar that becomes the vehicle of propagation.

2. Condensation Phenomena

Ambient air circulating inside a building contains water vapour that it releases when it cools down in the form of water itself (condensation). The temperature at which the condensation forms is called the "dew point". This is identical to small drops of water similar to dew that forms on cold surfaces such as windows or exterior walls. Sometimes the condensation that forms on a wall causes humid stains that one





can see easily but that one would be wrong to attribute to rising damp. Naturally when one adds rising damp, the condensation will increase the amount of humidity inside the building, which in turn, could intensify the risks of condensation.

This phenomena has been accentuated since the 70's or with the oil crises, the population has had a tendency to "over insulate" their habitation.

3. Lateral infiltrations

This is humidity that is caused by an exterior ground level that is higher than the interior ground level. The presence of this earth against the wall causes lateral pressure, which impregnates the walls with water and can lead to, especially in cellars, interior streams of water.



4. Hygroscopic salts

Rising damp is not limited to a simple source of water when it crosses through the walls, the ground through to the plaster. In actual fact, this also carries salts, certain of which are hygroscopic (in other words, they absorb humidity from the air), that they capture in the ground and in the brick work. This undesirable effect can be worsened when the brick work is or has been in contact with hygroscopic salts such as nitrates, chlorides and, in a lesser measure, sulphates.



5. Rain infiltrations

Porous brick work that has been damaged by frost, cracked piping, defective joints, a cracked gutter or eave, a defective chimney are all possibilities for infiltration that have to be identified with precision.

Pay attention to subsidiary problems that are created by humidity!

- The presence of humidity has an effect on the thermal insulation of your house : your heating bill risks being seriously increased!
- Humidity associated with obscurity, creates the ideal conditions for the development of dry rot.
- Do you know that termites particularly appreciate the combination of humidity + heat?



Murprotec.

A scientific approach that is unique in Europe.

1. A precise diagnostic of the causes of the problem

An experienced technician will visit your house and, after an in depth analysis, establish an exact diagnostic, suggest a personalised treatment solution and supply a provisional estimate to you.

Benefiting from his experience, his gifts of observation and his knowledge of the patrimony, the technician is capable of determining the origins of the humidity : capillary rising in the walls, rain or lateral infiltrations, condensation phenomena. The quality of this precise diagnostic is one of the keys for the success of the intervention

2. Preparation of the site

MurProtec carries out made to measure work : each problem demands a specific solution. This is the reason that, before undergoing any treatment, the MurProtec project manager takes material samples from your building. This second visit validates the treatment that has been foreseen and the chemical analysis that will be carried out in our laboratories has the aim of determining the nature of the product and the precise dosage to be implemented. Effectively, the degree of acidity and the presence of certain chemical elements (sulphates, nitrates in the walls are of key importance in the efficiency of the MurProtec treatment.

3. Treatment in function of the results

In function of the problems that are encountered, MurProtec a specific solution on the basis of the advanced technology that is available : micro-emulsion techniques have been shown to be particularly efficient. After treatment, we must let the walls dry naturally. The MurProtec specialist who is in charge of the works control will advise you about the different and best adapted techniques to be implemented.

4. Control of your site

At the end of the drying period, MurProtec will carry out a control visit that will validate the ultimate of the site finishing. You will benefit from a 30 year guarantee* on the treatments carried out by MurProtec. A commitment that we always make a point of honour of respecting!

* The 30 year guarantee only applies to the capillary rising treatments.



The MurProtec charter. To protect your interests even better.

The men and women of MurProtec are committed.

At every level of the company, the same motivation is present : from the administrative personnel to the technicians, including the controllers ... Everybody is committed!

1. Precision of the diagnostic
2. Free diagnostic
3. Technical report
4. After sales service
5. Personalised control of your site
6. Permanent double control of our activities
7. Healthy financial management
8. Personnel training to advanced high technology
9. Advanced technology

The MurProtec Company undertakes the commitment to be the leader in its field and to always remain the ultimate reference on the subject of advanced technology in the fight against humidity.

10. The customer first!

Customer satisfaction is our permanent objective. The thousands of sites that we have successfully treated since more than 45 years is the best proof.

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