

Floors, paints, adhesives and environment. The Babel of the terms ...

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PRODUCT WITH A “LOW EMISSION VOLATILE ORGANIC SUBSTANCES” (INDOOR EMISSIONS)

In this case the declaration refers to the indoor emissions emissions, being those released by chemical products in the long term and to which end users are exposed.

It is the effect that sometimes we call “smell of new” because these emissions are greater especially in products that have just been made or treated and in which residual solvents or other volatile organic substances are still present in adhesives, paints or other similar products.

These residual substances are slowly released into living environments creating an effect known as “indoor pollution” that toxicologists and public health experts increasingly consider a serious problem in the modern world.

In this regard, there are national laws and product certifications well known to operators in the sector. As far as the legislative sphere is concerned, the best-known law is the French one, which classifies building materials into four classes according to their VOC emissions, from A + (the lowest emissions one) to C (the highest emission class).

As far as voluntary certifications are concerned, the GEV-Emicode certification is well established in this sector. It essentially considers the chemical industry products and it was born some years ago in the northern Europe countries from the initiative of some multinational companies whose intention, with this certification system, was to protect their market against this problem.

SUSTAINABLE PRODUCT (GREEN)

Sustainable is defined as a product that derives essentially from the natural world and that possesses in itself the characteristic of being renewable. On this issue sensitivity is growing at all levels as there is the awareness that humanity cannot continue to base its development solely on fossil oils and their derivatives, to produce raw materials (plastics, paints, adhesives, etc.) and energy with the risk of gradually and irreversibly depleting the world from these resources. Sustainability therefore represents a development path that exploits raw materials of natural origin which can be continuously reproduced and therefore leaving to future generations a world with renewed resources and therefore still fully available.

A “green” product, for example a varnish, is therefore that which has been created with ingredients that not only come from the natural world, but which contain within them this concept of protection of future generations.

In this case, however, there is currently no “law” or regulation that allows an objective parameter to be used to evaluate or “measure” the sustainability of a product in a univocal way.

CONCLUSIONS

The intention of these brief notes was simply to highlight the true meaning of some terms regarding the environmental aspects of the chemicals used in our sector.

What is important to point out as a conclusion is that the various terms analyzed above are not interchangeable.

A “green” product could therefore contain high amounts of organic solvents (there are in fact vegetable-oils dissolved in organic solvents) as well as a “safe product” could still produce high indoor emissions.

It is evident that the possible combinations of the terms proposed above are many and only the knowledge or investigation on their true meaning (with numerical data to support of course!) can therefore help us to get acquainted in this kind of tower of Babel of the environment.

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