



Unique sustainable products for a healthy inside climate

CASol is an innovative Dutch company that develops and produces products that support achieving a better indoor air quality.

Providing we don't compare with polluted industrial areas, often the air quality in our buildings is much worse than outside due to several deficiencies of our buildings. Many solutions are found in air purification or ventilation, but these are not always adequate.

Volatile Organic Compounds (**VOC's**) are always in the air you breathe. You do not or hardly smell them, but if you would inhale certain VOC's every day, you will suffer damage from it. This can result in headaches, sometimes breathlessness and respiratory diseases. The most famous and most dangerous VOC is probably Formaldehyde *. A substance that is sometimes gasses out for years, coming from adhesives in furniture, carpets, and various plastics processed for sports shoes, furniture, even in packaging.

* In June 2011, the WHO (World Health Organisation of the United Nations) definitively determined that formaldehyde may be directly be the cause of some cancers and on and around the airways. You can imagine that it is a substance that is more dangerous for children.

The Casol **ANTI-VOC** system is applied to walls and consists of 3 components which are aligned:

1: **Primer**

The primer is an extremely thin and transparent, positively charged biofilm. The physical properties make it possible that it penetrates deeply into the substrate and hence is impermeable to potentially harmful fibers (asbestos, PCBs, etc.), the primer is manufactured on the basis of a natural polymer and is air permeable.

2: **Covering Absorber (Powder & Liquid) for walls and ceilings**

The combination with the mineral Absorber Covering stucco gives a solid structure of the material and a professional fire safety class A.

3: **Finish Absorber**

This breathable and quick-acting finish layer or mineral paint enhances the effects of the lower two layers. It also prevents the finish forming fungi. The Casol system is completely free of contaminants.

The three unique products reinforce each other. This guarantees the excellent results of the CASol system. A clever tuning of various active ingredients per coat, based on extensive research and field testing, offers large active surfaces once the CASol system is applied the wall or ceiling. For a maximum effect, one only needs to about 25-30% of the existing wall surface in 1 room.

After applying, the system dries by evaporation of water and adheres to the underlying surface, up to a specific layer. The whole remains namely vapor-open, but at the same time harmful fibers from the surface no longer penetrate into the indoor environment (think of asbestos fibers, mold spores). Furthermore the system responds immediately to harmful substances (VOCs) that are already in the indoor environment are. Tests by (German) TUV institute show that the levels of VOCs within a day after application of the product, fall well below the allowable standards. Of course, the CASol system is 100% free of harmful / poisonous substances. This is enshrined in the TUV Rheinland Certificate No ID 0000022845.



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