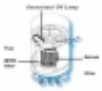
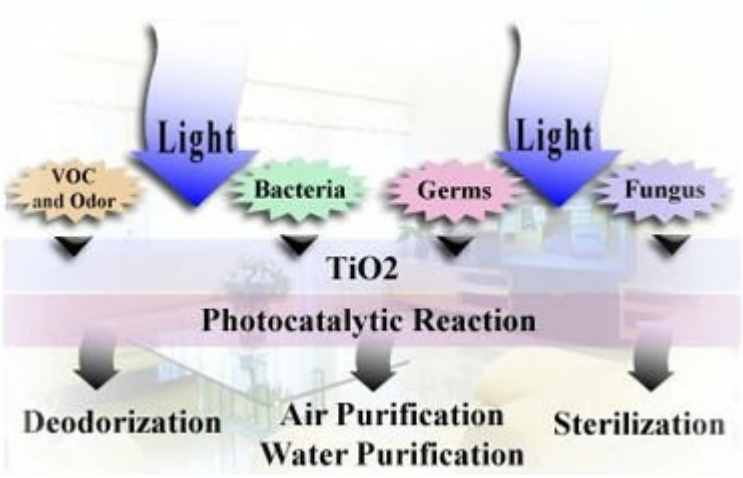
NOx gases, formaldehyde, benzene, V.O.C's and other harmful pollutants and contaminants [1]

Submitted by Abraham Sixto Nieves [2] on 19 August 2018 - 11:42am

 [2]



Photocatalytic Reaction

Nanotology Power solutions are the breaking news of not only a natural way to address air purification technology, but also hard to kill microorganism. Our specialized surface coatings without the need for using filters can capture more than 85% of the gases that fly around in the air and are detrimental to peoples health and property.

The formulations we use can also dissipate motor engine exhausts systems NOx gases, formaldehyde, benzene, VOCs and other noxious air waste.

How does it work?

When the coating is sprayed upon surfaces and drys, a strong ultra-thin coating activates. At the sight of light, a photocatalyst reaction initiates producing holes (h+) electron (e-) paris, which react with the organic contaminants that fall into the surface, destroying toxic gases at the molecular level. This is a similar reaction to Einstein's photoelectric effect, only that it occurs at a higher level.

Now the surface is able to convert complex and toxic organic substances (i.e. formaldehyde, et, al), just by receiving a little light to simple and safe inorganic substance(i.e. water and carbon dioxide). In this complete process, we will not find any residual contaminants, and the ones on the surface will not be collected or filtered; they will burst.

The coating we have placed on the surfaces in a chemical response reacts as a catalyst not being consumed, therefore maintaining its activation for a long time. In addition, the innovative photocatalyst modification technology, VLR (Visible Light Response) developed makes the product reliable for indoor use whereas UV light limitation does not impaire its decontamination ability. It can be called as the ultimate purification process.

Different formulation are available for V.O.C. Elimination, killing bacteria like MRSA, Staphylococci, mold / fungi,, and other microorganisms. For Lab simulation testing data and technical data information, please request.

Tags:

- Air Microorganism Decontamination Protection Pollution Bacteria Microbes Soil Surfaces [3]

Links
[1] https://www.cienciapr.org/en/blogs/members/nox-gases-formaldehyde-benzene-vocs-and-other-harmful-pollutants-and-contaminants [2] https://www.cienciapr.org/en/user/psicofisico2005 [3] https://www.cienciapr.org/en/tags/air-microorganism-decontamination-protection-pollution-bacteria-microbes-soil-surfaces