CleanAir®

PHOTO CATALYST INTERIOR SPACE PURIFIER COATING

Introducing Nano- TiO_2 photo catalyst treatment, the next generation of air purification technology.

CleanAir is an advanced high-end grade air purification coating from the latest nano-science technology - photo-catalyst. In the presence of light, active oxygen is formed and excited on the CleanAir treated surfaces to destroy all micro-sized air pollutants that land on it, including petro fumes, smog, diesel smoke, exhaust gases, industrial smoke, mold, chemical off-gassing or VOCs from car fabric, leather and plastic materials, air toxins, cigarette odor etc.
Whether they are disturbing allergens, toxic diesel, moldy odor, or even lingering tobacco smell, CleanAir does NOT just simply destroy them but totally decomposes their microscopic remnants into harmless gas and water vapor.
The whole process of CleanAir photo catalytic decomposition is non-selective and green in nature. Compared to current popular yet unsafe purification, Ionic or HEPA technology, photo catalyst is by far the most effective purification method available for air treatment. CleanAir durable coating requires only ONE single application to keep your car interior clean and purified at all time. Each application guarantees for a purification effect of up to 1 year. CleanAir is safe, non-toxic, pH neutral, colorless, odorless, and can be applied to virtually any surface e.g. in your car interior such as headliner, seat, carpets, dashboard and side panels as well as anywhere else there is bad air. The uses for CleanAir are endless such as interior of passenger vehicles, public transport vehicles (buses, trains) homes, hotel rooms, casinos or anywhere else that has bad air lingering on.

Allergy sufferers, chemical intolerant persons, smokers, or any odor haters will appreciate the benefits of CleanAir coatings bring.

Advantages over conventional deodorizing methods

1. Creates purified air by destroying odor molecules in the air without adding other harmful chemicals.
2. Decomposes odor caused by different chemicals such as tobacco smoke, pet feces, cleaning agents, rotten food products, etc.
3. Long-lasting air-purifying effect. Nano-TiO_2 continuously purifies air for up to 1 year.
4. Requires little or no maintenance. Saves time and money.

- What is titanium dioxide? What is photo catalyst? Titanium dioxide (TiO_2) is an anti-microbial metal created by a process which crystallizes titanic iron ore into a nano liquid form. When exposed to UV light in the sub 400 range, TiO_2 becomes a photo catalyst oxidizer (PCO) which as well creates hydroxyl radicals and superoxide ions that are two times stronger disinfectants than chlorine and one and half times stronger a disinfectant than ozone.

- After the application, does it produce any odor? No, it does not have any odor. For example, if applied to surface that has tobacco odors, those odors will be eliminated.

- Does CleanAir liquid have a shelf life? Basically, there is no shelf life; however to preserve for long term, the solution should be stored in a cool, dark environment.
Once the CleanAir application is completed, how long does it last? The Titanium crystals in CleanAir liquid form bonds that is semi-permanent. In case of materials that may undergo a physical peeling off by some force (such as carpets, mats and clothing), it is recommended to re-apply the solution every six months. Basically, our solution will out-live many materials such as seat, fabric, carpets, etc.

- Does it work in cold environments such as freezers? Yes, microbes that come in contact with a treated surface will cease to exist.

- Does CleanAir liquid get rid of cigarette odors such as tar and nicotine that have penetrated the surfaces? Yes, if a second hand smoke contaminated (second hand smoke is known to have over 400 known cancer causing chemicals) is treated with TiO_2 PCO solution, the odor will soon disappear. However, the discoloration caused by second hand smoke does not disappear. It is therefore advisable to first wash smoke contaminated surfaces that show discoloration before treatment.

- How does the intensity of light effect the ability of this Nano TiO_2 liquid create friendly oxidizers to purify the air? As a characteristic of titanium dioxide, it starts to produce friendly oxidizers en mass when exposed to ultraviolet rays of 400nm range or lower. It is more affected by the intensity of ultraviolet rays rather than the intensity of light itself. However, any air pollution, VOC, or odor that comes in contact with a surface treated with CleanAir liquid will become oxidized.

- What are some of the more popular applications for CleanAir liquid? Removal and prevention of tobacco odors, building and home interior spaces, car interiors, bathrooms, sinks, showers, kitchen counters, upholstered furniture seating, carpet and tile flooring (especially if you have pets), curtains, blinds, windows exposed to light, ceiling fans, car rims, white outdoor furniture, house gutters and concrete or brick that you want to keep mold free, the list goes on and on.

- Does CleanAir cause any fabric discoloration or any streaking effects on solid surfaces? CleanAir can be applied to fabrics, curtains, carpets, woods, tiles, and ceramics, glass, metal and painted surfaces. If the surface is exposed to direct sunlight, do not apply to black or very dark colored surfaces as the oxidation process can remove some pigments from surfaces. However, Indoor light is not strong enough to cause this oxidative reaction on fabrics and surfaces. When spraying any surface with CleanAir liquid, it is always advisable to spray a small area first (test area) then allow to dry to make sure the solution does not react with the surface. Apply after you are confident that the fabric or material can be safely treated.
Spray the surface until completely moistened then wipe off with microfiber towel to work the CleanAir liquid into the fabric or other surface. Allow the area to completely dry.

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