

Touch Clean[®]

New anti-bacterial coating for
door handles and hard surfaces



A Touch of Class



International Ltd.
dortrend

Hospital infections in the news

The number of deaths due to MRSA doubled in the four years from 2001 to 2005. The same doubling was observed in the 8 years from 1993 to 2001.

C.Difficile death rates increased by 69% from 2004 to 2005! These alarming rates of increase in recent time have caused this phenomenon to be constantly in the newspapers and little success has been reported. There is no quick fix and the answer will undoubtedly lie in a combination of programmes to cover all possible sources of infection. Whilst a major body of opinion is concentrating on the area around hospital beds it must also be remembered that people moving around a hospital are a major contribution to infection transmission from one surface to another.

Active methods of ensuring hygienic surfaces include regular cleaning with biocides, and hand washing regimes, but these depend on diligence by operatives and have been shown to cause spread of bacteria in worst cases.

An alternative is to use passive systems, especially for surfaces not in contact with patients, such as door handles, walls, doors, curtains and equipment.

TouchClean®

A new product helps in the fight

TouchClean® is a new nano technology photocatalytic coating from Dortrend International. Originally developed to coat door handles to kill bacteria, it has a wide range of possibilities including self cleaning surfaces both indoors and out.

What does it do?

TouchClean® destroys organic compounds on surfaces. Bacteria, spores, viruses, odours, smoke and pollutants are all destroyed. For instance TouchClean deals with MRSA, C. Difficile, E. Coli, SARS, listeria, salmonella, and bacterial spores. *TouchClean™* applied to surfaces will stop contaminants from growing and reduce them very quickly. Tests have shown that within 24 hours colonies of bacteria were

The coating starts to work immediately it is exposed to a source of UV light. It continues to work 24 hours a day, 7 days a week, 365 days a year, as long as there is a light to power it.

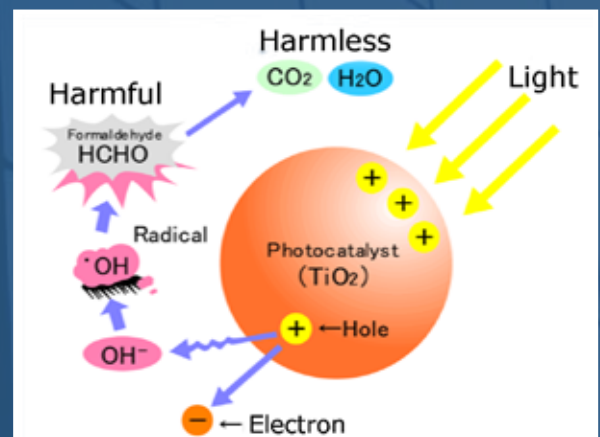
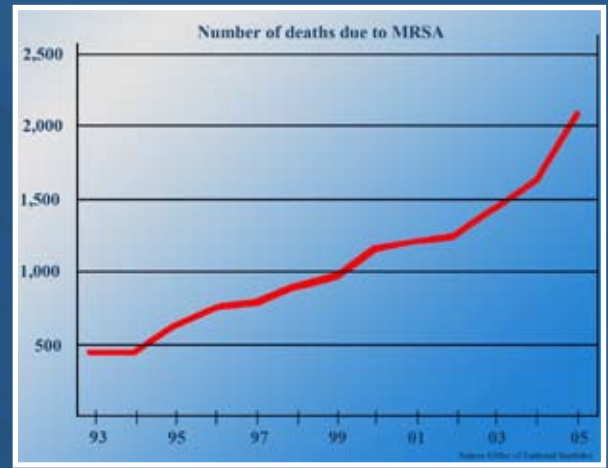
Other systems need extensive curing periods at high temperatures, which limits the materials to be coated.

Clean warm water is all that is needed to keep the surface clean, avoiding the use of environmentally unfriendly cleaning agents.

How does it work ?

When ultra violet (UV) light strikes the particles in the coating they are activated and emit electrons. Water nearby is broken down into highly reactive hydroxyl radicals and super oxides. These free radicals create a powerful oxidising reaction which breaks down organic compounds, including bacteria, viruses, moulds and odours, into water (H₂O) and carbon dioxide (CO₂) which then evaporate from the surface.

It also has a "self cleaning" effect that repels dirt on hard surfaces.



TouchClean[®] from Dortrend International is available in four product formats

- ready coated door and window furniture
- a spray coating for hard surfaces
- a filter for airborne contaminants
- coating for external use

TouchClean[®] coated door and window furniture is available across the whole range of Dortrend products. As the coating does not require baking at high temperature it is available on all product finishes. The coating is hard wearing and virtually undetectable.



TouchClean[®] is also available in a specification that can be sprayed onto doors, walls, ceilings, equipment and decorations. The product can be applied over newly decorated finishes without detracting from the finish. The product not only destroys organic contaminants, it also has a self cleaning action and does not attract dust.

TouchClean[®] based filters are used in an air purifier to remove airborne contaminants including pathogens, odours, and particulates.



The external coating can be used on buildings and pathways to maintain the as new finish. Any accumulated dust will simply wash away with the next rainstorm. Algae and lichen cannot survive on a *TouchClean*[®] coated surface.



To find out more about how

Touch
 *Clean*[®]

can help you please contact us
- we'll be happy to talk to you



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