

GeorgeBoyd

ARCHITECTURAL IRONMONGERY

WITH PARTNERS DORTREND

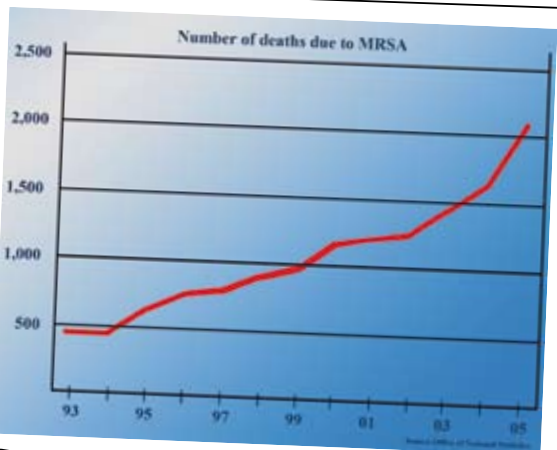


TOUCH CLEAN™

new anti-bacterial coating for door handles and hard surfaces

SUPERBUG PROBLEM ON THE INCREASE

HOSPITALS LOSING FIGHT AGAINST MRSA



HOSPITAL INFECTIONS IN THE NEWS

The number of deaths due to MRSA doubled in the four years from 2001 to 2005. The same amount of increase as 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 times have caused this phenomenon to be constantly mentioned in newspapers, and little success in decreasing death rates has been reported. There is no quick fix in reducing the spread of infections. The answer will undoubtedly lie in a combination of programs to cover all possible sources of infection. A major body of opinion believes hospital beds are to blame. But, it must also be remembered that people moving around a hospital also contribute to infection transmission from one surface to another.

Active methods of ensuring surfaces are hygienic include regular cleaning with biocides and hand-washing regimes. But, these depend on diligence by operatives and have been shown to actually cause the spread of bacteria in the 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.

INTRODUCING



The new antibacterial coating for doors, handles and hard surfaces brought to you by George Boyd.

A NEW PRODUCT TO FIGHT HOSPITAL INFECTIONS

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. This means *TouchClean™* can deal effectively with MRSA, C. Difficile, E. Coli, SARS, Listeria, Salmonella and bacterial spores. *TouchClean™* applied to surfaces stops contaminants from growing and reduces them very quickly. Tests have shown that within 24 hours, colonies of bacteria were reduced by 99.99%

HOW DOES IT WORK?

When ultra-violet light strikes the particles in the coating, the particles 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). These then evaporate from the surface. It also has a self-cleaning effect that repels dirt on hard surfaces.

The coating starts to work immediately when 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's light to power it. Other systems need extensive curing periods at high temperatures – this limits the materials that can be coated. Clean, warm water is all that is needed to keep the surface clean, avoiding the use of cleaning agents which are harmful to the environment.

TOUCHCLEAN™ FROM DORTREND INTERNATIONAL IS AVAILABLE IN FOUR PRODUCT FORMATS:

- Ready-coated door and window furniture
- Spray-coating for hard surfaces
- Filter for airborne contaminants
- Coating for external use

READY-COATED DOOR AND WINDOW FURNITURE

TouchClean™ coated door and window furniture is available across the whole range of Dortrend products. As the coating does not require baking at high temperatures it is available on all product finishes. The coating is hardwearing and virtually undetectable.

SPRAY-COATING FOR HARD SURFACES

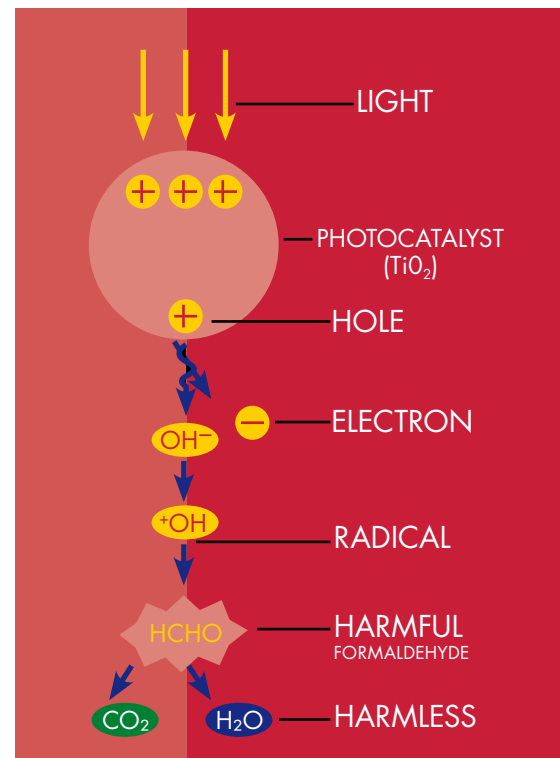
TouchClean™ is also available in a specification that can be sprayed onto doors, walls, ceilings, equipment and decorations. The product can also be applied over newly decorated finishes without detracting from the finish. It not only destroys organic contaminants, it also has a self-cleaning action, and does not attract dust – plus, marks such as fingerprints are also destroyed.

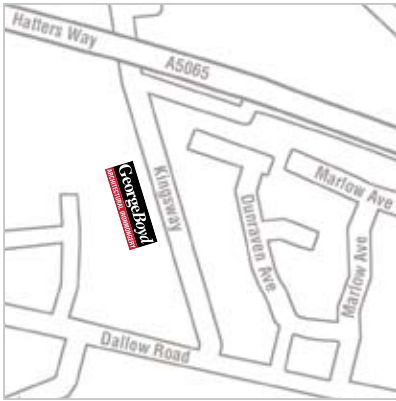
FILTER FOR AIRBOURNE CONTAMINANTS

TouchClean™ based filters can also be used in an air purifier to remove airborne contaminants including pathogens, odours, and particulates. Although the main internal application for *TouchClean™* is the defence against Bacterial Infections within the Health Sector, *TouchClean™* can be used within any building environment from restaurants, children's nurseries to domestic settings – giving extra protection to people that are susceptible to infection.

COATING FOR EXTERNAL USE

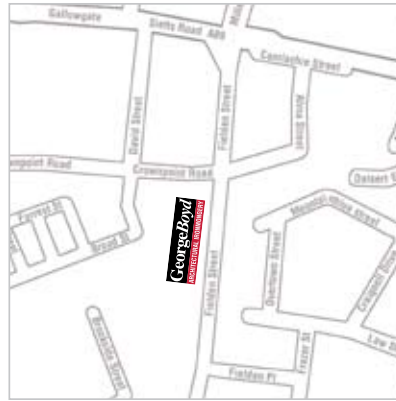
The external coating can be used on buildings and pathways to maintain the 'as new finish'. Any accumulated dust will simply wash away in the rain, and algae and lichen cannot survive on a *TouchClean™* coated surface.





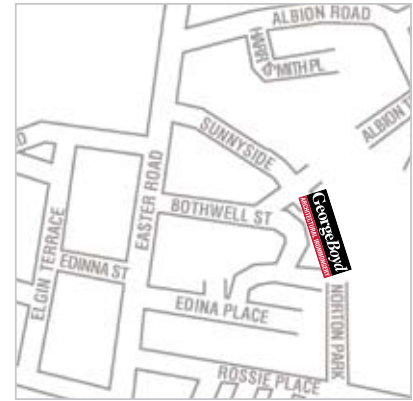
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