

# Bioni Hygienic

## Anti-Microbial Wall Coatings Based upon Nanotechnology



### Product Features

based upon nanotechnology

constant high efficiency (anti-microbial effect)

raises the level of hygiene in medical facilities

no room air pollution in the medical facilities

free of conventional biocides

free of coating preservatives

non-flammable (A2)

superior washability and resistant to chemicals

tested by independent laboratories



- Freiwillige Prüfung
- Emissionsgeprüft



# Bioni Hygienic

## Killing Germs by Simply Painting the Walls!

### Anti-microbial Nano Coatings Improve Hospital Hygiene



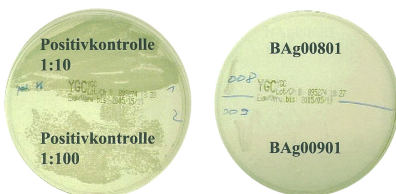
Bioni Hygienic is the first interior paint which makes lasting improvements to the level of hygiene in clinics and hospitals. A new combination of active components, jointly developed with the Fraunhofer Institute for Chemical Technology and based upon nanotechnology, ensures that Bioni Hygienic presents an anti-microbial surface which permanently eliminates even very resistant hospital germs almost completely.

#### The Bioni Hygienic Anti-Microbial Effect

Bioni Hygienic achieves its anti-microbial effect by virtue of a specially developed combination of nano ingredients. A significant contribution is made by non-toxic nano particles with a diameter of one hundred thousandth of a millimetre. Germs, bacteria or fungal spores brought into contact with the surface coated with Bioni Hygienic and the integrated nano particles, for instance by the movement of air, are very quickly eliminated. The wide-ranging effects produced by the nano coating result not only in an improvement in the level of hygiene in medical and nursing facilities of all kinds, but also offer maximum protection against the formation of mould and mildew in bathrooms, toilets, washing areas and kitchens.

#### Reduction in Staphylococcus Aureus: 99.6%

The anti-microbial effects of Bioni Hygienic have been demonstrated in extensive studies. In addition to the direct inoculation of coating samples using inoculating loops according to Ph.Eur.2.6.1. (see diagram below) the reduction in hospital germs such as staphylococcus aureus has also been examined (see diagram on the right). The observed reduction of 99.6% testifies to the power of Bioni Hygienic.



without nano ingredients

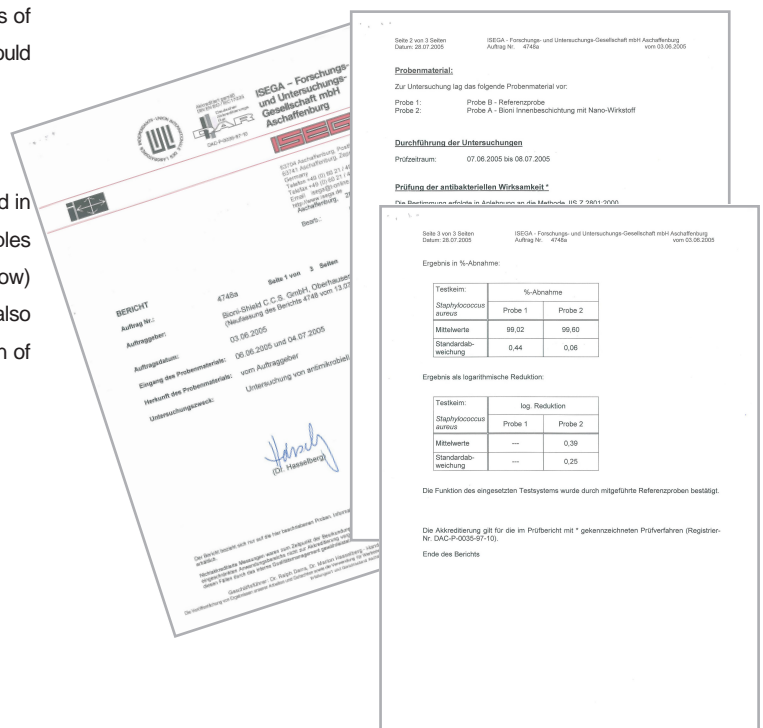
with nano ingredients

#### Constant High Efficiency without Room Air Pollution

Since the nano-particles used in Bioni Hygienic are solid bodies, the system's efficiency retains its effect permanently. The rapid degradation of the protective function due to the evaporation of effective ingredients - as is commonly the case with biocides in conventional paints - does not take place. This property of our products, along with the absence of biocides, solvents, plasticisers, and preservation agents ensures that no room air pollution is caused by our low-emission Bioni coating.

#### The Product's Multi-Functional Properties

In hospitals in particular, interior wall paints and coatings are subject to extremely high chemical and mechanical demands. In order to meet these demands, Bioni Hygienic has been designed to provide a high degree of resistance to both cleaning (scrubability class 2 according to DIN EN 13300) as well as to chemicals. In addition, the coating is non-flammable (building material class A2 according to DIN 4102-1) thus providing a unique supplementary safety feature.



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