

Bioni *USA*[®] *intelligent* *coatings*

*Nanotechnology based Prevention
with Permanent Durability*



SAFE



RELIABLE

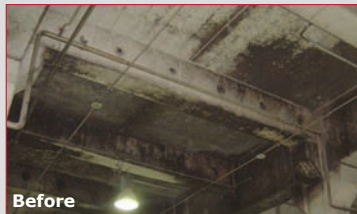


DURABLE

Taking COLOR Further!



The first efficient solution for food & beverage processing facilities



Before



After (1 year with Bioni®)

Benefits:

- Permanent protection against microbes for the life of the coating
- Permanently prevents bacteria on the coating film (Listeria, E. Coli, other.)
- Cost savings through less repaints and extensive time consuming cleanups
- No leaching toxins, helps to protect your environment
- Can be used in high moisture problem areas
- Can be applied directly over mold and rust
- US patented technology offers you a first time solution for the food and beverage industry
- Highest Fire Rating: **Class A (ASTM E84) 0 (0-25) on flame spread, 5 (0-450) on smoke development**

Bioni wall & ceiling System is the first solution for food and beverage processing facilities that really works

Mold and bacteria in all areas of food production is a significant hygienic problem. Cleaning and remediation is often extremely expensive. A thorough cleaning of equipment, conveyor belts, and surfaces will only partially solve these problems. Difficult areas to clean, such as ceilings and walls, add to the problem. The heightened growth of micro-organisms increased by humidity created in the cleaning process results in the need for constant maintenance and loss of production.

Bioni System is the first nanotechnology based coating system specifically designed and perfectly matched for the requirements of the food industry. Bioni coatings were developed jointly with the Fraunhofer Institute, which is one of the world's largest scientific Institutes. These developments led to the unique, US patented, nano-protection mechanism, which provides an eco-friendly long-term protection against the colonization of mold, mildew, and bacteria even in very damp environments.

A premium system for the highest expectations

Bioni System is free of conventional toxic biocides, odor-free and water-based. Therefore it's safe to use in food and beverage handling environments. Additionally it provides an outstanding resistance against water, cleaning, and disinfectants. This superior robustness reduces the frequency of repaints significantly and prevents the regular need for costly, time-consuming maintenance.

Features:

- Highly resistant to chemicals and disinfectants
- Performs in high-moisture areas
- Moisture-resistant and vapor-permeable
- Exceeds indoor air quality regulations
- Odor-free – can be applied in occupied areas – less down time
- Resists the wear and tear of power washing
- Water-based, free of solvents and safe to use
- Has superior flow, hiding and adhesion qualities
- Tested by independent laboratories

BioniHygienic®

New multi-functional interior paint based on green nanotechnology with unmatched performance



Benefits:

- Proven 5-log (99.999%) reduction of bacteria (**MRSA, VRE**, other) on the paint film for the life of the coating
- Extreme durability saves cost through less repaints
- Exceeds indoor air quality regulations
- Odor-free, low VOC formula allows for application in occupied areas, which means less downtime
- Washable matte finish allows for superior hiding and easy cleanup

Hygienic is the ideal product for areas with tough service environments such as health care facilities. The new green nanotechnology formula permanently prevents the growth of micro-organisms on the paint film even in high moisture environments.

Hygienic is a completely green product that has superior durability when compared to other paints. Additionally Hygienic provides an outstanding resistance against water, cleaning, and disinfectants. This superior green nanotechnology base formula reduces the frequency of repaints significantly and prevents the regular need for costly and time-consuming maintenance.

Recommended Use: Hygienic is ideal for tough service environments such as hospitals, clinics, surgical centers, day care centers and rehabilitation centers.

BioniNature®

New multi-functional paint for interiors based on green nano-technology



Benefits:

- **Patented** formula that permanently prevents mold and mildew on the paint film
- Non-toxic, no odor, Zero VOC, breathability
- First truly washable matte finish
- Extremely durable, recommended for all interior areas
- A solution for high moisture areas e.g. bathrooms and kitchens

Bioni Nature represents a quantum leap in the field of paints and coatings. Based on the latest knowledge from the field of nanotechnology, Bioni has succeeded in developing a unique multi-functional interior paint exceeding the highest expectations in terms of performance and reliability.

Bioni paint was developed jointly with the Fraunhofer Institute, which is one of the world's largest scientific Institutes. These developments led to the unique, world patented, green nanotechnology formula within Bioni paint that allows for superior moisture regulating properties. This unique formula affects the painted surface which creates a hostile environment for microorganisms trying to inhabit the surface.

Bioni Nature provides unmatched performance and durability along with permanent prevention of mold, mildew and other unwanted microbes on the paint film.

Recommended Use: Nature is Ideal for all types of interiors, which includes residential homes, hotels, resorts & commercial buildings. High-traffic areas where durability is a necessity. An excellent choice for children's rooms, schools, retirement homes and other environments for people with high sensitivity to allergens, odors and toxins. Ideal for high-moisture areas such as bathrooms, kitchens, gyms, laundry-rooms and basement-areas. Education facilities.

BioniPerform®

New multi-functional energy saving paint for exteriors based on green nanotechnology



Benefits:

- Patented formula that permanently prevents mold and mildew on the paint film
- Non-toxic, no odor, zero VOC, breathability
- Superior heat deflection (up to 93% according to independent lab studies)
- Flexible with superior resistance to cracking, peeling and blistering
- Superior Crack bridging
- Vapor permeable, water resistant
- Up to 38% less energy demand for cooling the home

Features: High solar reflectance (SRI:105). Excellent UV-resistance and color retention. Superior resistance to cracking, peeling & blistering. Highest Class A Fire Rating (per ASTM E84). Extreme durability with long-lasting protection Protects concrete from corrosion (high carbon dioxide diffusion resistance). Moisture-resistant & water vapor-permeable

Unmatched exterior protection

The most important job an exterior coating does is to provide a durable protection of the exterior surface against the effects of weather and the environment. Bioni Perform is a 100% acrylic-based exterior paint with a carefully balanced composition that provides an extremely durable protection against the negative effects of the climate and aggressive airborne materials. Bioni performs even in the harshest and most demanding environments.

Superior mold and mildew protection

In order to permanently prevent the growth of microbes on the coating surface, Bioni Perform features a unique green nanotechnology formula which provides superior moisture regulating properties. This unique formula affects the painted surface and creates a hostile environment for microorganisms trying to inhabit the surface, even in extremely damp environments. This ensures that mold, moss and mildew prevention lasts many years without resorting to the use of conventional fungicides.

Recommended Use: Perform is ideal for exterior surfaces where a durable protection against mold and mildew, heat, moisture, UV light, and weathering is desired. Parking garages.

TECHNICAL INFORMATION



PRODUCT TECHNOLOGY

Pure acrylic coatings based on nanotechnology.



COLOR

White and 1,750 colors



COVERAGE

Interior; 200-300 sq. ft. per gallon per coat Exterior; 200-250 sq. ft. per gallon per coat. Depending on surface texture, porosity & application method.



APPLICATION METHOD

To be applied by brush, roller or sprayed using suitable equipment.



AREA OF APPLICATION

For interior or exterior use. System for walls and ceilings in food and beverage processing facilities.



SUBSTRATES

Oil and new plastered walls, ceilings, previously-painted walls and ceilings, rendered block, masonry concrete, sand-lime bricks, and various wall panels.



INDOOR AIR QUALITY

VOC: < 5 g/l (according to ISO 11890-2)



SAFETY

Fire Rating: Class A (according to ASTM E84)



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