



DURABLE & PROTECTIVE  
**WALLCOVERING**  
YOU CAN CUSTOMIZE

**VRP® PLUSCOAT 400/500 FINAL FINISH**  
**NOW WITH MICROBAN®**

**BACKGROUND**

**WHY Consider the VRP® System<sup>1</sup>**

- There is an expensive problem in the high-risk environment of the health-care infrastructure: Administrators are finding that commercial wall paints must be repeatedly applied after premature failure caused by forces beyond their control.
- Hospital-acquired infection (HAI) has become a major concern as increasing numbers of patients require medical attention for HAI's. Two main factors that contribute to HAI are:
  - ❖ Contaminated equipment (catheters, IV's blood pressure cuffs, bed rails)
  - ❖ Walls and Floors carrying infectious microbes
- CDC protocols for healthcare facilities are affecting the overall performance of the product applied to the surface.
  - ❖ Critical areas are cleaned and disinfected between each patient use and during terminal cleaning (this causes the increased abrasion which reduces the life of the coating)
  - ❖ New regulations on the strength of disinfecting cleaners are reducing the life of typical wall coatings due to abrasion loss, chemical degradation or diminished aesthetics such as gloss or color change.
- Regulations favor seamless wall without grout since contaminants get into porous grout or seams even after a thorough cleaning.
- Hospital coatings need to meet Center for Disease Control ("CDC") and The Joint Commission ("TJC") protocol without sacrificing aesthetics and durability.
- Hospital coatings should be selected according to the following three criteria (in order of priority):
  - ❖ Low Odor
  - ❖ Durability
  - ❖ Price
- Two-component waterborne polyurethane coating technology offers high durability and resistance to harsh cleaners and disinfectants without sacrificing desired look and appearance.
- Waterborne urethanes exhibit a fourfold increase in durability over traditional acrylic wall paints, which eliminates a minimum of three paint and labor cycles
- High durability urethanes demonstrate superior scrub and chemical resistance, in most cases outperforming other paints in scrub testing and resistance to common disinfection chemicals.
- Hospitals who specified high durability urethanes have found their repaint cycle are reduced by up to 75%.
- Hospitals have switched to new high-performance technologies to reduce out-of- service time while maximizing long-term durability.

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### Guidance from the Center for Disease Control <sup>2</sup>

- According to the CDC's guidelines, when hospital surfaces are cleaned with a disinfectant, "a few hours after the disinfection, the bacterial count was nearly back to the pre-treatment level."
- The CDC also states that "the value of designing surfaces that kill bacteria on contact or have sustained antimicrobial activity should be further evaluated."
- "Noncritical environmental surfaces frequently touched by hand potentially could contribute to secondary transmission by contaminating hands of health-care workers or by contacting medical equipment that subsequently contacts patients."
- The CDC's Guidelines identify a list of chemicals for disinfecting healthcare facilities. Typically these chemicals have adverse effects on surface coating performance by lowering gloss or removing or softening the coating.
  - ❖ Vitrulan's PlusCoat 400/500 are high performance urethanes that are engineered to withstand very harsh environments and provide excellent protection against the CDC specified chemicals.

<sup>1</sup>Steven Teinstadtler (Bayer Material Science) "When 'Good Enough' Suddenly Won't Cut It: Coatings Technology Faces Challenges in the Healthcare Environment," A D + d Online Feature Published September 7, 2012 (<http://www.durabilityanddesign.com/archive/?fuseaction=viewed&articleid=4764>)

<sup>2</sup> U.S. Center for Disease Control, Guidelines for Disinfection and Sterilization in Healthcare Facilities

### Key Advantages of VRP® Wall System with PlusCoat 400/500 Coatings with Microban® Technology

- Exceptional Performance and Durability
  - ❖ Far Exceeds Standard Commercial Urethanes
  - ❖ Seamless wall protection – no area for germ build-up o Increased Impact Resistance
- Environmental Benefits
  - ❖ Revolutionary Product Technology o Antimicrobial Protection
  - ❖ LEED Certification
- Significant Cost Savings
  - ❖ Reduced repaint cycles (4 to 1)
  - ❖ Reduced ongoing maintenance
  - ❖ Reduced repair costs
  - ❖ No down-time to re-coat surface
  - ❖ 44% Saving over five years vs. paint
- Unlimited Design Options
  - ❖ Customized Patterns
  - ❖ Painted to any color in the spectrum for easy matching
- Safety Improvement
  - ❖ Class 1 Fire Rating – ASTM 84
  - ❖ Glass Will not burn
  - ❖ < 5% Smoke Dispersion

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