



An antimicrobial formulation for porous and Non-porous Substrates



Summary: An antimicrobial formulation coating composition and its preparation method is provided. The coating composition can be water or alcohol-based or a combination of both. This coating composition can be used for both porous and non-porous substrates. It provides a broad-spectrum antibacterial formulation that is resistant to normal wear and tear. Examples of substrates/surfaces may be metals, wood, plastic, glass, ceramic or sun mica etc. The application of coating composition is simple and does not require any special equipment.

Application area: Sanitization of surfaces in the hospital, development of a formulation that does not result in resistance in micro-organisms, can be applied on tables, chairs, door knobs, railings, lifts, bags, and hospital surfaces.

Scale of development: Functional antimicrobial formulation developed and its efficacy demonstrated in Laboratory on various porous and non-porous substrates.

Advantages:

- The coating composition displays antibacterial, antifungal, antiviral, and antimold activity
- It does not impart undesirable color to the substrate
- It can effectively prevent the transmission of micro-organisms to humans
- It is useful for long-term protection of surfaces from bacteria and viruses
- It is abrasion proof

- Technology developed at Lab Scale (TRL-4)
- Protected via Indian Patent Application
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Looking for Industrial partners for commercialization