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Development and Characterization of an Antimicrobial Gel Coating for Medical Textiles

In light of the recent COVID 19 pandemic, healthcare workers and patients are the most at risk of nosocomial infections and Personal Protective Equipment (PPE) is the first line of defense to prevent transmission of said pathogens. Around 80% of transmission comes from surfaces of contacted regions and while most pathogens only require an organism to host it's metabolic activities, the residual pathogens may be of concern as well as they remain on the surface of contact for extended periods of time. To address this issue, a novel coating was created for the use of coating healthcare based reusable PPE textiles. This project aims to demonstrate the antimicrobial effect of this textile coating, as well as to describe its mechanical and characteristic properties.

