

Antimicrobial Material Preservatives Make the World Stronger

Communities across the United States and around the world are striving to reduce waste and extend the functionality and use of the products we rely on daily. Antimicrobial material preservatives help increase the durability of goods and prevent them from prematurely breaking down, reducing the need for replacement. By increasing the longevity of products, antimicrobials play a critical role in promoting sustainability and reducing waste.

Antimicrobials Help Prevent the Deterioration and Spoilage of Personal Care Products

Personal care products such as toothpaste, sunscreen, and moisturizers help us maintain good hygiene and health. Within this market, water-based products offer many benefits. However, they're also highly prone to spoilage caused by bacteria, fungi, and mold that are attracted to moisture. Antimicrobial material preservatives help protect these products from such harmful microbes growing and spreading. Without these chemistries, our common water-based products would be more susceptible to bacterial growth and spoil much more quickly.

Applications Across Personal Care Products



Toothpaste

One of the most widely used personal care products, toothpaste is essential to maintaining good oral hygiene. However, between one-third and one-half of a toothpaste's composition is water, which is added to facilitate application and prevent it from drying out. The presence of antimicrobial preservatives in toothpaste helps extend its product life and efficacy by preventing spoilage due to bacteria and other microbes.



Sunscreen

Sunscreen is a critical product for protecting our skin against the harmful UV rays of the sun when we're outside. Many consumers choose water-based sunscreens since their lighter composition typically feels less heavy, sticky, and oily. Thanks to material preservatives, a tube of water-based sunscreen can last an entire summer without spoiling, which means less time purchasing new products and more time enjoying the weather.



Lotion

Lotions and moisturizers are popular products used daily to help keep skin looking and feeling healthy. Water-based lotions are often preferred over oil-based due to their lightweight composition, quick absorption, non-greasy texture, and hydrating qualities. Material preservatives added in the manufacturing process extend the shelf life of these products significantly, allowing us to avoid premature disposal and frequent replacement.



Cosmetics

Cosmetics include a wide array of products that we use and apply daily. Water-based makeup is noted for working with a variety of skin types due to its non-greasy consistency, and it can provide moisturizing benefits, quick application and absorption into the skin, and anti-aging qualities through a healthier complexion. Material preservatives help to extend the usefulness and quality of these cosmetics by resisting spoilage by germs.

Antimicrobial Benefits to Economic and Environmental Sustainability



Extends the usefulness and reliability of products used on a daily basis



Provides consumers with alternative to oil-based or chemical-based products



Reduces the frequency of replacing water-based personal care products



Supports integrity of products used in hot, wet environments like sunscreen



Allows the unique benefits of water-based products while protecting against spoilage



Reduces consumption of resources needed to manufacture replacement products

