

Antimicrobial Material Preservatives Make the World Stronger

Across America, communities strive to reduce, reuse, and recycle natural and manufactured resources that form products we rely on every day. Many important materials are susceptible to decay, deterioration, or spoilage from certain microbes. Antimicrobials help prevent these products from prematurely breaking down so that they require replacement less frequently. By helping materials to last longer, antimicrobials play an important role in promoting sustainability and reducing waste.

In-Can Preservatives Help Water-Based Paints to Last Longer

The paints and coatings industry has transitioned to more environmentally friendly water-based formulas over the last 50 years. More than 90 percent of architectural coatings now sold in the United States are water-based rather than solvent-based, which minimizes hazardous air pollutants and volatile organic compound emissions during production and use. Water-based paints, however, are highly prone to spoilage by microbes such as bacteria, fungi, and mold. Without a well-balanced selection of material preservatives, paint would require refrigerated storage and transport or else it would spoil very quickly.

Applications Across Domestic, Commercial, and Industrial Paints and Coatings



Consumer Paint

Material preservatives significantly increase the shelf life of water-based paints, allowing consumers to store unused paint for as long as several years, thus allowing for greater use over time and less wasted product going into landfills.



Industrial Paints

With environmental regulations around the world tightening as governments seek to reduce resource consumption and emissions of VOCs and other chemicals, the use of water-based paints becomes crucial to coat those assets that must withstand harsh environmental conditions such as offshore oil and gas and industrial maintenance applications and fixtures.



Special Purpose Coatings

Material preservatives help preserve the integrity of highly durable paints used for transportation markings and marine environments, preventing discoloration, viscosity loss, and overall product failure.



Allied Paint Products

Numerous products that are applied to, or mixed with, paint can also spoil and affect its overall integrity. These include paint removers, thinners, pigment dispersions, caulks, and adhesives.

Antimicrobial Benefits to Economic & Environmental Sustainability



Protects the dried coating film from discoloration due to mold and mildew



Reduces need to replace and manufacture new product



Allows for far less use of solvent-based paints in favor of water-based



Prevents paint from early in-can spoilage



Reduces volume of paint waste and disposal into landfills



Increases service life by preserving coating integrity from fungal growth

