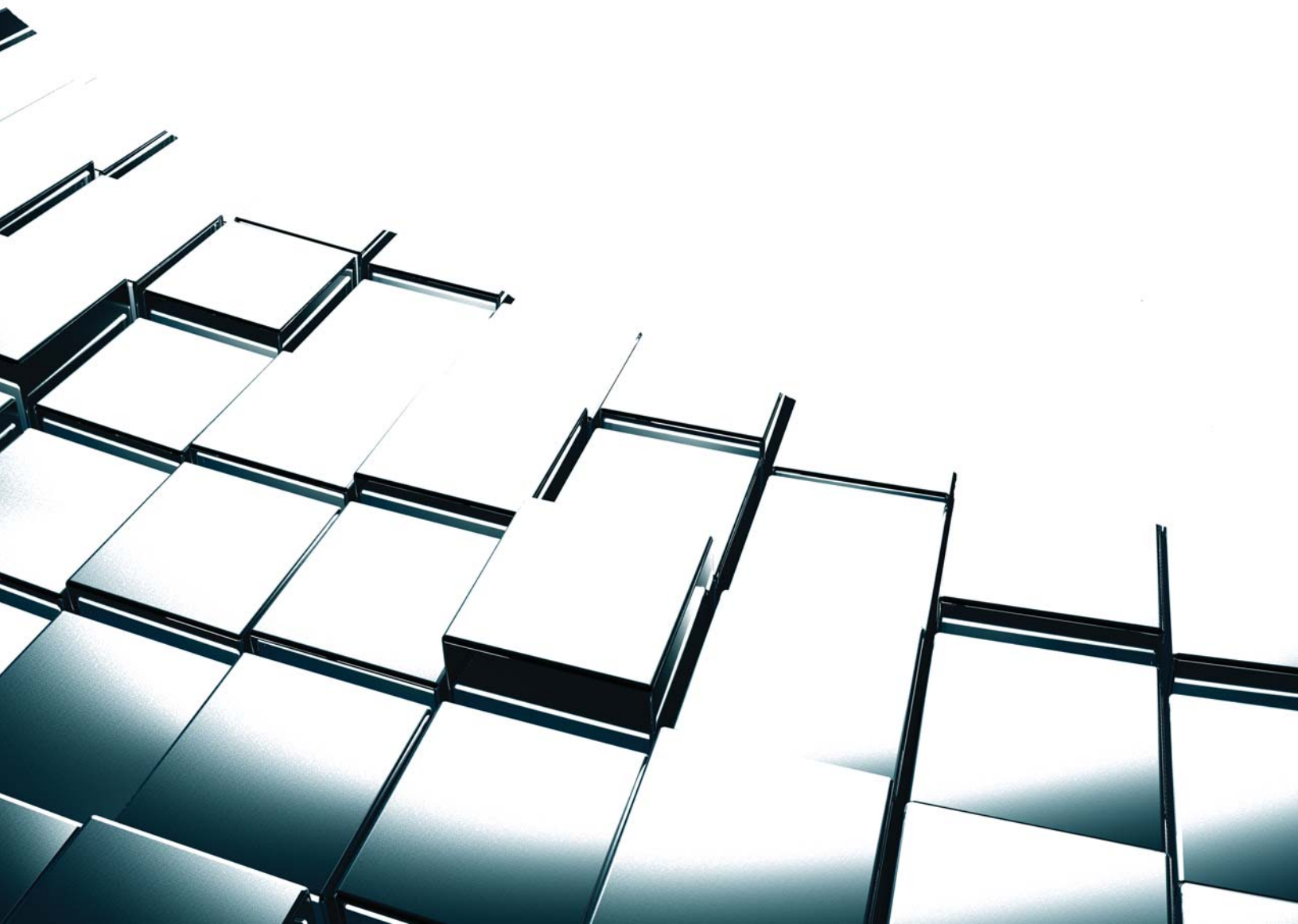




Alesta[®] AM

Antimicrobial Powder Coatings



Alesta® AM

Antimicrobial-Treated Powder Coatings

Alesta AM is a patented* powder coating treated with silver zinc zeolite antimicrobial technology that is known to inhibit the growth of microbes on powder coated surfaces.

*Patents US6093407(A), US6432416(B1)

Features & Benefits

Available in a variety of chemistries, including epoxy, hybrid, and polyester (premium weathering and low cure formulations)

- Available in a full range of colors, textures, and glosses
- Active ingredient silver zinc zeolite antimicrobial technology designed to protect powder coatings

Ideal Applications

These coatings provide corrosion protection that is ideal for hospitals, public transit, restaurants, park and playground structures, medical equipment, water treatment plants, food service packaging equipment, pharmaceutical labs, and school and child care facilities. These particular applications have the ability to expose powder coatings to harmful microbes, negatively affecting the product.



Important Notes

Some Alesta AM powder coatings can be formulated to meet:

- FDA guidelines under the Federal Code of Regulations, Title 21, Section 175.300; Resinous and Polymeric Coatings
- NSF/ANSI Standard 51 for food equipment materials

Axalta makes no public health claims in connection with its Alesta-AM products. Antimicrobial protection is limited to the coating itself, and does not protect against disease-causing bacteria, viruses, germs, or other disease-causing organisms.

Alesta® AM Offering

1-Stock Colors. We offer two antimicrobial-treated powders from our stock product line

2- Alesta RALGuard Combine this additive to your Alesta RAL products to incorporate antimicrobial properties.

3- Custom formulations. Talk to your local sales representative regarding custom formulations to fit your exact needs for antimicrobial powders.

| Product Name | Product Code |
|------------------|--------------|
| Sky White AM | PFW669S8A |
| Crystal Clear AM | PFC609S9A |
| RAL GUARD | XX1006 |

Technical information

Why is silver-based antimicrobial additives for powder coatings?

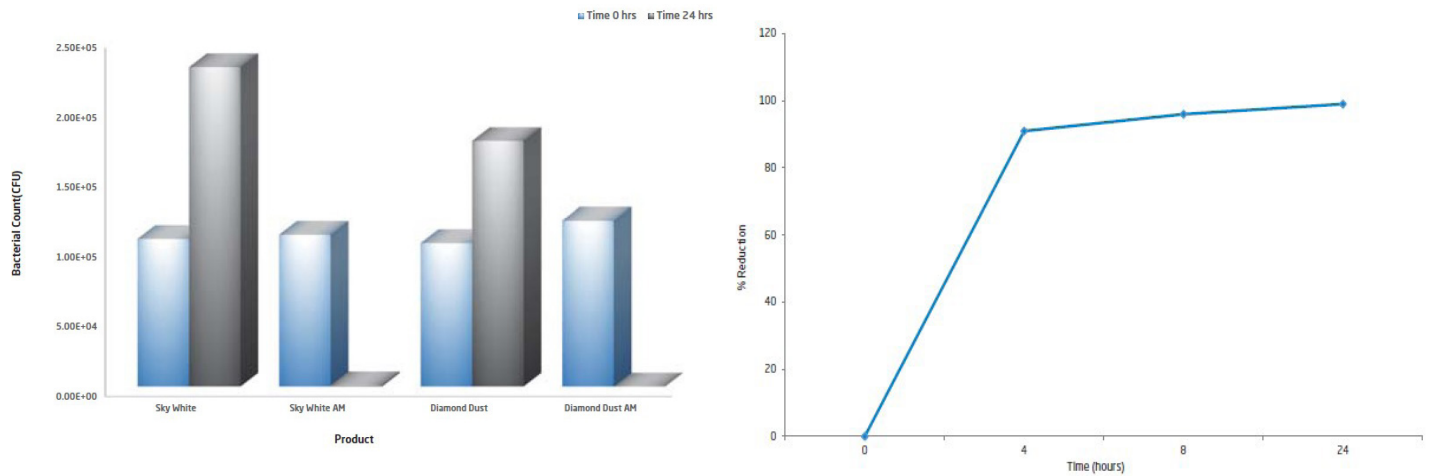
Silver is a naturally occurring element proven effective at inhibiting the growth of many types of microbes. Historical data shows that silver exhibits very low toxicity for humans and animals. Silver is highly regarded for its antimicrobial properties and has the benefit of protecting the coating better than repeated cleaning with alcohol, chlorine, or ammonium-based antimicrobials.

The use of bleach type cleaners on our antimicrobial treated coatings should be avoided due to the rapid depletion of the antimicrobial agent when exposed to these types of compounds. We recommend a mild detergent and water solution.

How does it work?

Moisture causes a controlled release of silver ions embedded in the special silver-containing zeolite. Silver ion interferes with the bacteria cell membranes to inhibit respiration and growth.

Antimicrobial Efficacy within 24 Hours*



Antimicrobial Activity Data* of Alesta AM White Polyester.

* Using modified JIS Z 2801:2000 Antimicrobial Products- Test for antimicro activity and efficacy (modified for improved testing variation)

** R value as defined by JIS Z 2801:2000

*** 1 cycle= 2 hours continuous agitation in 0.2% Ivory Liquid soap solution.

| Model Wash Solution | Model Exposure Solution | |
|-----------------------|-----------------------------|------------------------|
| Detergent | Synthetic Sweat | Diluted Nutrient Broth |
| 0.2% Ivory® Dish Soap | Lactic acid, urea, and NaCl | Peptone, beef extract |

Contact Axalta Coating Systems
Powder Coatings North America Customer Service
for more information or to place an order.

In the U.S., call 1-800-247-3886 or email
info.powder@axaltacs.com

In Canada, call 1-888-447-2598 or email
powder.info@axaltacs.com

axalta.us/powder



Alesta[®]
Powder Coatings

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Alesta® RaGuard™ HAA

Antimicrobial Additive

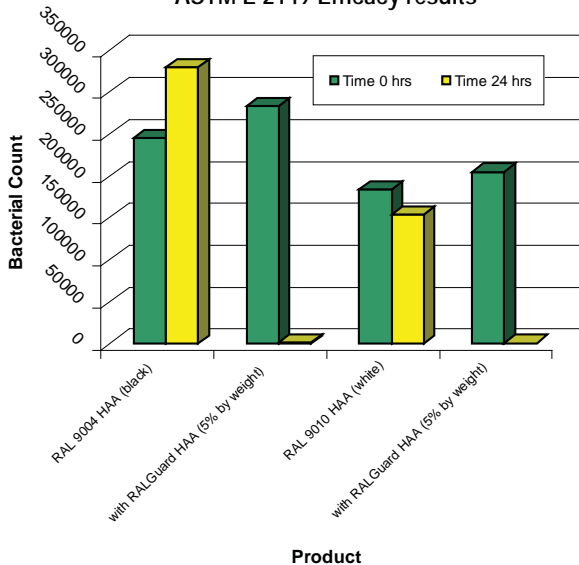


Alesta® RALGuard™ HAA Antimicrobial Additive

Mix Ratio Table

| RAL HAA Powder | 5% RALGuard HAA | | |
|----------------|-----------------|-------|-----|
| | lb. | g. | oz. |
| 25 lb. | 1.25 | 567 | 20 |
| 50 lb. | 2.5 | 1,134 | 40 |
| 100 lb. | 5 | 2,268 | 80 |

ASTM E 2149 Efficacy results



Efficacy results can vary depending on the method of incorporation and actual application procedures. For maximum efficacy, we recommend Alesta AM products, which are bonded.

Contact Customer Service
for more information or to place an order.

In the U.S., call 1-800-247-3886 or e-mail
info.powder@axaltacs.com

In Canada, call 1-877-887-0880 or e-mail
powder.info@axaltacs.com

www.axalta.us/powder

Alesta®
Powder Coatings

Alesta® RALGuard™HAA XX1006 is a patented* antimicrobial additive designed to inhibit the growth and transmission of harmful microbes on powder coated surfaces. Simply add 5% RALGuard™HAA additive to any Alesta® RAL HAA powder coating to incorporate antimicrobial properties.

*Patents US6093407(A), US643241(B1)

Key features and benefits:

- Compatible with all Alesta® RAL HAA powder coatings.
- Represents an alternative to custom-formulated antimicrobial powders.
- Can be 40% less expensive than a minimum 400 lb., custom-formulated antimicrobial powder.
- Conveniently packaged in 5 lb. and 25 lb. boxes.

Directions for Use:

- We strongly recommend the use of proper personal protection equipment (PPE) as stated in the MSDS. Note: When mixed with other products, the resulting mixture will contain the hazards of all components.
- Make sure all equipment is clean and in good working condition.
- Add Alesta® RAL HAA product to a clean fluidized hopper (no box feeders) and start fluidizing powder. For optimum efficacy, refer to Mix Ratio Table for proper ratios of RALGuard™ HAA additive. It is recommended you allow the mixture to fluidize for at least 10 minutes before application. According to strict guidelines issued by the EPA, it is unlawful to exceed 25% of RALGuard™ HAA additive.
- Thoroughly mix the Alesta® RAL HAA powder and RALGuard™ HAA additive before coating parts.
- Alesta® RAL HAA products mixed with RALGuard™ HAA should not be reclaimed.
- For more information consult Alesta AM Technical Brief and RALGuard FAQ

Important notes:

- Only use with Alesta® RAL HAAs. Do not use with other powder coatings.
- Not FDA compliant (should not be used for food preparation areas).
- Antimicrobial protection is limited to the treated article and does not protect against disease causing bacteria. The use of these products does not diminish the importance of good hygienic practices.
- Alesta® RAL HAA products mixed with RAL HAAGuard™ additive will retain their initial color and physical properties if the directions for use are followed. Slight discoloration might occur in light colors over time.
- Loss of gloss, hazing and pinholes might appear in the final finish if the amount of RALGuard™HAA additive exceeds the recommended mix ratio. However, the efficacy will be unaffected.
- The EPA has strict guidelines concerning the promotion of antimicrobial coatings. Promotions can communicate that these coatings contain an antimicrobial additive that inhibits the growth and transmission of harmful microbes. However, you cannot make any specific health claims or statements that ensure the public's health and safety in any way without obtaining your own registration through the EPA.
- Slight yellowing may occur in white colors (Delta E<1).

AXALTA COATING SYSTEMS