

Technical Data Sheet

JAZEERA ANTIMICROBIC AGION

JA-16023

Description:

A low VOC, high quality silk finish acrylic emulsion paint. It has an ambient temperature cross-linking technology to offer excellent properties for all weather conditions and long lasting. It gives very good opacity, superior finish with excellent resistance to microbial growth including bacteria, molds and mildews. The cornerstone of this product technology is silver, a naturally occurring and highly effective antimicrobial agent.

Recommended Use:

As a finish coat for interior applications, on concrete, cement, gypsum and brick surfaces.

Following are some fields applications to use in:

- Hospitals: specially operating theaters, clinics, ICU and CCU.
- Food, drugs and water manufacturing: production halls, laboratories and stores etc.
- Laboratories: microbiological laboratories etc.
- Hotels and restaurants: dining halls, kitchens etc.

Characteristics:

- Naturally clean and safe antimicrobial properties of silver built right into the product without using unsafe synthetic or chlorinated chemicals. It has no toxic effect on people, animals or plant life .
- Silver ions kill a broad spectrum of bacteria, yeast, fungi and molds.
- Excellent washability by water and detergent.
- Ultra low VOC and extremely low odor.
- Excellent resistance to house hold chemicals.
- Excellent adhesion, hardness and durability.
- Formulated without APEOs, formaldehyde and ammonia.

Certificates:

- Cradle to Cradle silver certification for the Agion antimicrobial additive.

Physical Constants:

• Finish	Silk	
• Color	White and other colours as per Jazeera Color card.	
• Specific Gravity	1.28	ASTM D1475
• Viscosity	95 KU @ 31o C	ASTM D562
• Volume Solid	42 %	ASTM D2697
• D.F.T.	40 µ each coat	
• Theoretical Spreading Rate*	10.50 m ² /L @ D.F.T. 40 µ	

Tests:

• Alkali Resistance	Pass, 7 days (1% solution)	ASTM D1308	
• Water Resistance	Pass, 7 days	ASTM D870	
• Adhesion	Pass	ASTM D3359	
• Flexibility	Pass 3 mm. Diameter	ASTM D522	
• Freeze-Thaw Stability	Pass, 3 cycles	ASTM D2243	
• Heater Stability	Pass, 49 days @ 50°C		
• MRSA bacteria	Pass, 99.81%		Agion Nature's Antimicrobial - USA

*The practical spreading rate of the product depends on the surface, ambient temperature, application method, actual thickness of the dry coat of the product and the wasted amount.

(to avoid waste, be sure to buy the right amount of the paint for the surface area required)

Technical Data Sheet

JAZEERA ANTIMICROBIC AGION

JA-16023

Surface Preparation:

- All new surfaces shall be cured at least 28 days prior to application of the primer.
- Remove old paints completely from previously painted surfaces .
- The substrate should have sufficient strength and free from unsounded areas, pug holes, protrusions and pops.
- Make sure that the surface is clean, dry, free from dust, oil, grease, salt and mold .
- Fill the holes and cracks with suitable fillers such as "Jazeera Ultimate", "Jazeera Unique Filler" or "Jaz Epoxy Crack Filler ESP" prior to application of the primer (Refer to TSD).

Application Guide:

- The required temperature during application, must not be less than 5°C; the surface moisture should not exceed 8% and the relative humidity at work place should not exceed 70%.
- pH of surface should not exceed 9.
- Paint should be stirred carefully before use.
- A suitable quantity of "Tap Water" can be added to get reasonable viscosity for application.
- Do not apply on wet and moistened surfaces until completely dry.
- Do not apply the next coat unless the previous one is fully dry. Minimum recoating interval time should be followed.
- Adequate ventilation should be provided during application.

Application Tools:

- Airless spray:
 - Nozzle orifice : 0.015-0.021"
 - Nozzle pressure : 15 MPa (2100psi)
 - Spray angle : 40-80°
- Spray gun : Recommended nozzle size: (1.5 - 1.8) mm.
- Roller: Soft and smooth roller
(Recommended type: Dekor Nardeen 8009 - code: 1093)
- Brush: General / Normal type

Thinner:

- Tap water.

Thinning Ratio:

- (0 - 5)% by volume for airless spray gun applications.
 - (15 - 25)% by volume for spray gun applications
 - (10 - 15)% by volume for roller & brush applications.
- It depends on the weather conditions at work place.

Painting System:

- Primer: apply one coat of "Jazeera Green Prime" .
- Intermediate: apply two coats of "Jazeera Green Putty".
- Topcoat: Apply two coats of "Jazeera Antimicrobial Agion".

Drying Time:

- Surface dry 1 hour.
- Hard dry 4 hours.
- Recoating interval 8 hours. (minimum)
- Full cure 7 days.

All above results according to ASTM D5895 @ 25°C.

Technical Data Sheet
JAZEERA ANTIMICROBIC AGION
JA-16023

Cleaning Tools:

- Tap water.

Packing:

- 1 US Gallon.
- 18 Ltrs. Drum.

Shelf Life & Storage:

Shelf life : 24 months @ 25 °C.

Storage: The container should be sealed and kept in dry, cool & well-ventilated place and stored in accordance with national regulations.

Safety Precautions:

Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product.

- Handle with care before and during use.
- During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapour, should be strongly avoided.
- Recommended to use the product in well-ventilated area when applying the paint in insufficient ventilated areas, forced ventilation should be provided.
- Keep away from the reach of children.

For environmental safety: please donate the leftover paint and packaging to your local authorized institution for usage or recycling purpose.

Note: Wastes and empty containers should be disposed of in accordance with local regulations made under the Control of Pollution Act and the Environmental Protection Act.

Disclaimer:

To the best of our knowledge the technical data listed herein is true and accurate up to publication date and is subject to change without prior notice. User must contact Jazeera Paints Company to verify of any modifications before specifying or ordering the product. Thus, information given in this sheet is not intended to be exhaustive and any person using the product other than the recommendations in this sheet or without reverting to our Jazeera TSD, he should take his accountability in this connection.

As we are not capable to control the quality and the substrate's conditions as well as the factors that affect on using, or applying the product, so we never give any written or implied guarantee in these documents, but we guarantee our products to conform to Jazeera quality while we assume no responsibility for coverage, performance or injuries resulting from application. Liability "if any" is limited to replace the products mentioned above.