



Asahi Life Care Technology

A subsidiary of

Singapore Asahi Chemical & Solder Ind. Pte. Ltd

47, Pandan Road, Singapore 609288

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Method Of Application for AHC7B Antimicrobial Solution onto Surfaces

Introduction

This is only serve as a guide on how to apply Asahi AHC7B onto surface intended to coat as coating the surface depend very much on the type of surfaces be it porous, non-porous, metal, wood, laminated or not laminated. Asahi Lifecare AHC7B is formulated to be compatible with most type of surfaces, and tuned to be suitable for various coating deposition method such as spraying, wiping, brushing, dipping etc.

Spraying Method.

There are 2 different mode of spraying

- a. Compressed Air Spraying
- b. Manual Hand Spray

a.Compressed Air Spray



Example of the Spray head used.

- Ensure the surface is clean from oil and other contaminants that may negatively affect the adhesion.
- Alcohol may be used to clean these surfaces.
- Nozzle Size Recommended is 1.0mm and below
- Air Flow/Pressure recommended is 3 bar
- Distance from sample to spray nozzle is 50 – 70mm
- No of passes is 1 to 3 passes
- Curing Mode
 - Ambient cure
 - 1 to 2 hours to be tack free, depending on the substrate and also the thickness of the coating
 - At least 6 to 12 hours to be fully cured
 - Thermal Cure
 - 80°C for 1 hour.
- Precautionary Measure:
 - Mask and gloves should be worn when handling the chemicals and during coating process.



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- Coat in a well-ventilated area.

b. Manual Hand Spray



- Use the fine mist spray head.
- Clean the surface before spray
- Attached the spray head and placed about 50 to 70mm distance from the surface.
- Spray the area you wish to cover.
- If found to have uneven spray droplets, use a lint free paper towel and wipe it down
- Ambient cure
 - 1 to 2 hours to be tack free, depending on the substrate and also the thickness of the coating
 - At least 6 to 12 hours to be fully cured as time
- Precautionary Measure:
 - Mask and gloves should be worn when handling the chemicals and during coating process.
 - Coat in a well-ventilated area.



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Wipe Down Method



- Clean the surface you wish to coat.
- Pour the solution onto a small dish
- Use a lint free paper, cloth or clean sponge (PDMS sponge recommended)
- Soak the lint free paper, cloth or sponge
- Wipe through the surface you wish to coat on. Please make sure that it is evenly coated without any streaks of fibers deposited on the surface.
- Ambient cure
 - 1 to 2 hours to be tack free, depending on the substrate and also the thickness of the coating
 - At least 6 to 12 hours to be fully cured
- Precautionary Measure:
 - Mask and gloves should be worn when handling the chemicals and during coating process.
 - Coat in a well-ventilated area.

Brushing Method

- Clean the surface you wish to coat.
- Pour the solution onto a brush plate
- Use a good paint brush.
- Paint through the surface you wish to coat on. Please make sure that it is evenly coated without any streaks of deposited on the surface.
- Ambient cure
 - 1 to 2 hours to be tack free, depending on the substrate and also the thickness of the coating
 - At least 6 to 12 hours to be fully cured
- Precautionary Measure:
 - Mask and gloves should be worn when handling the chemicals and during coating process.
 - Coat in a well-ventilated area.



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Surface Preparation before coating

All surfaces needed to be clean before coating to have better adhesion properties

Surface to be coated	Type of cleaning agent
Glass	Wipe down with IPA
Fabric	Wipe down with IPA
Wood	Wipe down with IPA or any cleaning agent
Leather/PVC	Wipe down with IPA or any cleaning agent
Metal	Wipe down with IPA