


Safety Steps and Procedures To Follow Prior To Applying Sur-Prep® AP-1:

- 1.) Always refer to the safety data sheet (SDS) prior to applying **Sur-Prep® AP-1** if you have any questions about this product.
- 2.) Always wear gloves, a protective suit, and protective eyewear to prevent **Sur-Prep® AP-1** from contacting the skin and eyes.
- 3.) Make sure there is proper ventilation in the area where **Sur-Prep® AP-1** will be applied and wear a respirator to prevent inhalation of fumes from **Sur-Prep® AP-1** especially if the ventilation in the area where **Sur-Prep® AP-1** will be applied is insufficient.
- 4.) Make sure there are no sparks, open flames, or other heat and fire ignition sources in the area where **Sur-Prep® AP-1** will be applied.

Purposes Of Applying Sur-Prep® AP-1:

- 1.) Use **Sur-Prep® AP-1** to:
 - *Reactivate paint surfaces for subsequent coats to be applied
 - *Increase adhesion between basecoat and clearcoat coatings of new basecoat/clearcoat systems
 - *Enhance paint adhesion used for stenciling to topcoats
 - *Replace scuff sanding between paint coats

General Application For Mixing and Applying Sur-Prep® AP-1 Two Part Kits:

- 1.) Mask the areas that will not be coated with **Sur-Prep® AP-1**. 
- 2.) Mix **Sur-Prep® AP-1 Part A** and **Part B** at an ambient air temperature between 65°F and 90°F (18°C and 32°C).
 - A.) Pour the **Part A** contents into the **Part B** container.
 - B.) Reseal the **Part B** container and shake for 1-10 minutes for the pint kits and 5-10 minutes on a paint shaker for the 1 gallon (3.8 Liter) and 5 gallon (18.9 Liter) kits.
 - C.) There is no induction time for **Sur-Prep® AP-1**. The pot life of **Sur-Prep® AP-1** is 24 hours. If white particles are noticed in **Sur-Prep® AP-1** after it was mixed, discard the product and make a fresh mix.
 - D.) Keep the used container covered until it is ready for application.
- 3.) Apply **Sur-Prep® AP-1** with HVLP, air assisted, airless, or electrostatic paint gun and make sure that it is applied as a thin film and that the surface appears damp (gloss on paint surface will change). As **Sur-Prep® AP-1** dries, the gloss on the paint surface will change from a 60° surface gloss to a surface gloss below 10°.
- 4.) **Note:** It is recommended that you apply **Sur-Prep® AP-1** when the relative humidity is less than 70%. Do not apply **Sur-Prep® AP-1** at a humidity level that is below the minimum humidity level for a given temperature. Refer to the **temperature and humidity range graph** on page 4 for applying **Sur-Prep® AP-1**.
- 5.) Apply next decorative paint coat or stencil paint within 24 hours. **Note:** Liquid or moisture mixed with **Sur-Prep® AP-1** can create a white precipitation and affect the bond between topcoats. Be sure that the **Sur-Prep® AP-1** does not contain any white precipitation before applying it
- 6.) Once applied, the surface coated with **Sur-Prep® AP-1** shall not be touched or disturbed prior to any subsequent coating application.
- 7.) Clean spray equipment with methyl propyl ketone (MPK) or 70/30 MPK/methyl ethyl ketone (MEK) mixture.
- 8.) Allow the film to dry 30 minutes for large area and 15 minutes for stencil use.

Spray Applying Sur-Prep® AP-1 And Aerosol Application Steps:

1.) Use the following equipment to apply **Sur-Prep® AP-1**.

- * High Volume/Low Pressure (HVLP) Paint Sprayer Gun (High Volume/Low Pressure (HVLP) Sprayer for Paint high volume version)
- * An Air Assisted Airless Spray Gun
- * Aerosol
- * Electrostatic spray equipment
- * **Formit®** Extension Wands-For use with all **Zip-Chem®** aerosols to reach difficult to access areas, such as stringer edges.

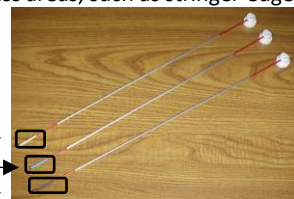
HLVP Gun



* **Formit®** 360° Spray (White Tube) Wand

* **Formit®** Fan Spray Spray (Blue Tube) Wand

* **Formit®** 180° Spray (Black Tube) Wands



Formit® 360° Spray
Demonstration Video



Formit® Fan Spray
Demonstration Video



Formit® 180° Spray
Demonstration Video



Note: If any defects occur during application, runs or heavy application, dry the area with compressed air. Remove the dried powder using a solvent, such as MPK or 70/30 MPK/MEK mixture. A tack rag can also be used as well. Reapply a thin wet film of **Sur-Prep® AP-1**. If the second coat of paint is not applied over **Sur-Prep® AP-1** within 24 hours, remove the dried powder using a solvent, such as MPK or 70/30 MPK/MEK mixture. A tack rag can also be used as well. Re-apply a thin and wet film of **Sur-Prep® AP-1**.

Note: Once applied, the surface coated with **Sur-Prep® AP-1** shall not be touched or disturbed prior to application of any subsequent coating.

Aerosol Application Steps:

- 1.) Shake **Sur-Prep® AP-1** aerosol can for 10-15 seconds.
- 2.) Apply a thin film of **Sur-Prep® AP-1**.
- 3.) As the **Sur-Prep® AP-1** dries, the gloss on the painted surface will change. It will change the 60° surface gloss from 90 to below 10.
- 4.) Allow **Sur-Prep® AP-1** film to dry 30 minutes for large area and 15 minutes for stencil use.
- 5.) Apply next decorative paint coat or stencil paint within 24 hours.

Note: If any defects occur during application runs, or heavy application, dry the area with compressed air. Remove the dried powder using a solvent, such as MPK or 70/30 MPK/MEK mixture. A tack rag can also be used as well. Reapply a thin wet film of **Sur-Prep® AP-1**. If the second coat of paint is not applied over **Sur-Prep® AP-1** within 24 hours, remove the dried powder using a solvent, such as MPK or 70/30 MPK/MEK mixture. A tack rag can also be used as well. Re-apply a thin and wet film of **Sur-Prep® AP-1**.

Note: Once applied, the surface coated with **Sur-Prep® AP-1** shall not be touched or disturbed prior to application of any subsequent coating.

Removing Sur-Prep® AP-1 Overspray For Unmasked Areas and Surfaces Not Needing Reactivation:

Note: Remove the dried powder using a solvent, such as MPK or 70/30 MPK/MEK mixture. A tack rag can also be used as well. Reapply a thin wet film of **Sur-Prep® AP-1**. If the second coat of paint is not applied over **Sur-Prep® AP-1** within 24 hours, remove the dried powder using a solvent, such as MPK or 70/30 MPK/MEK mixture. A tack rag can also be used as well. Re-apply a thin and wet film of **Sur-Prep® AP-1**.

Once applied, the surface coated with **Sur-Prep® AP-1** shall not be touched or disturbed prior to application of any subsequent coating.

Over Application, Runniness, or Wet Areas With Sur-Prep® AP-1:

- 1.) If there is over application (the film is white rather than just a gloss change), excessive runs, or wet areas, use clean and compressed air to dry the defective area.
- 2.) Use an absorbent non-woven wiper (which meets BMS 15-5 or equivalent) and wet the wiper with methyl propyl ketone (MPK), solvent ketone (MPK) or a 70/30 mixture by volume of MPK solvent and methyl ethyl ketone (MEK) solvent.

- 3.) Re-apply **Sur-Prep® AP-1**



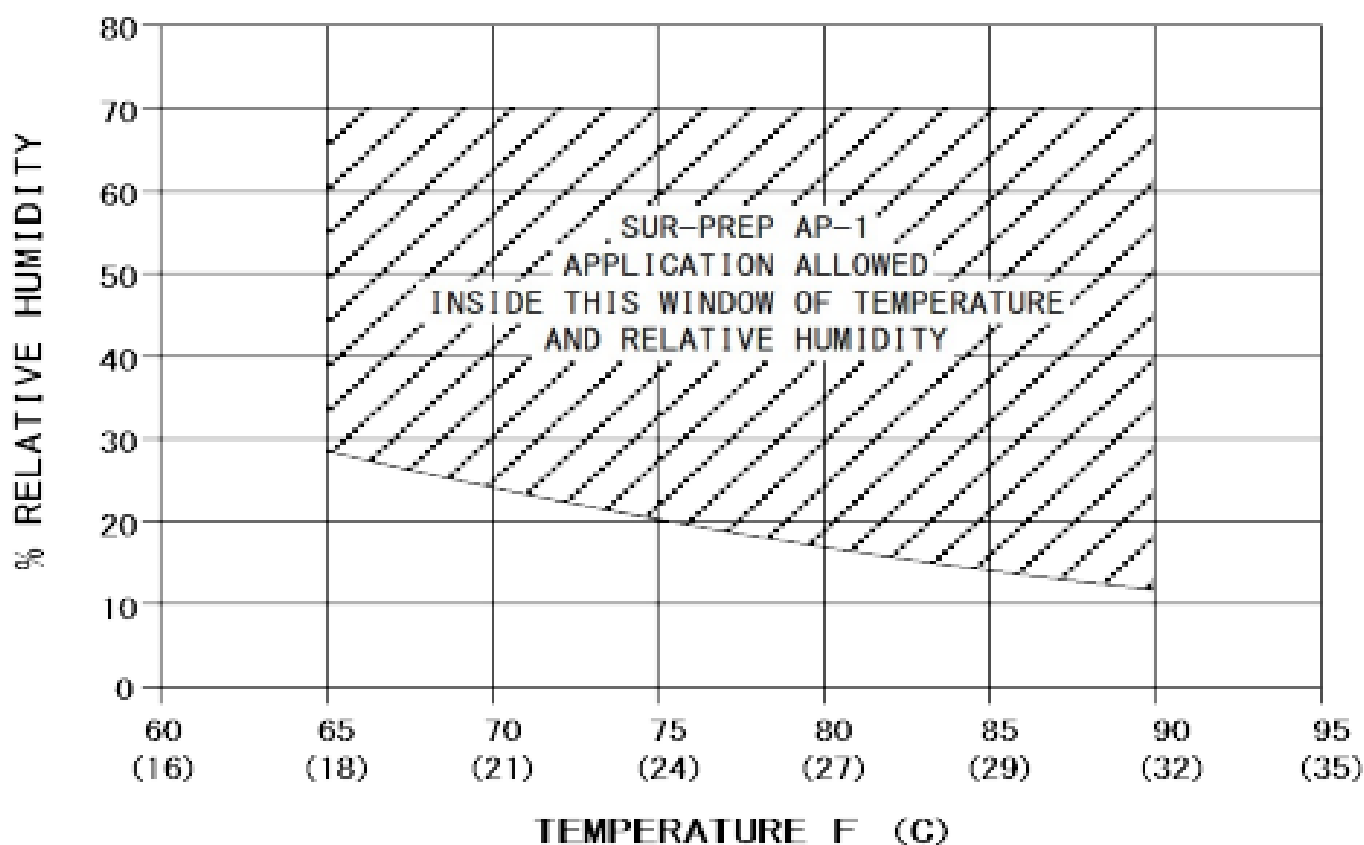
Removing Sur-Prep® AP-1 On The Surface For Over 24 Hours, Debris, Water Contact, Contamination, Or Rubbing With Materials:

- 1.) Remove **Sur-Prep® AP-1** with an absorbent non-woven wiper (which meets BMS 15-5 or equivalent) and wet the wiper with methyl propyl ketone (MPK) solvent keton (MPK) or a 70/30 mixture by volume of MPK solvent and methyl ethyl ketone (MEK) solvent.



- 2.) Other products that can be used include a Scotch-Brite 7447 pad and a Scotch-Brite Clean and Finish (very fine, aluminum oxide).
- 3.) Immediately wipe the surface dry with a clean and dry absorbent non-woven wiper (which meets BMS 15-5 or equivalent) wiper and make sure the solvent does not dry on the surface.
- 4.) Make sure that the conditions in the **temperature and humidity range graph** below for applying **Sur-Prep® AP-1**.

Temperature and Humidity Range Graph For Applying Sur-Prep® AP-1 :



NOTE: THE TEMPERATURE AND HUMIDITY RANGES SHOWN ARE THE LIMITS FOR APPLICATION TO ASSURE OVERCOAT TOPCOAT ADHESION. THESE LIMITS DO NOT TAKE INTO ACCOUNT EQUIPMENT CONTROL TOLERANCES. DEPENDING ON EQUIPMENT SET POINT ACCURACY, IT MAY BE NECESSARY TO SET CONTROL LIMITS INSIDE THE LIMITS SHOWN IN THIS FIGURE.

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Sur-Prep® AP-1 Product Pictures, Zip-Chem® Product Packaging Part Numbers, and Other Materials To Purchase:

Sur-Prep® AP-1

*11 fl oz (325 mL) Aerosol-**011671**

*Case of Pint (473 mL) Kits-**100264**

*Case of 1 Gallon (3.8 Liter) Kits-**100265**

Formit® Wands (12 Assemblies Per Package)

*Formit®-18-Fan-006224

*Formit®-18-180-006226

*Formit®-18-360-006227

*Formit®-18-STD-FOG-008352

*Formit®-18-90-FOG-008353

*Formit®-29-360-101321

*Formit®-36-360-009131

*Formit®-48-360 with metal sleeve-009132

*Formit®-48-360 without metal sleeve-100424

*Formit® Sample Pack (3 each of Formit®-18-Fan,

Formit®-18-180, Formit®-18-360, Formit®-18-STD-FOG-100107)

250 Masking Tape Tan (Can Be Certified TO SAE-AMS3721)

Tin Foil | Stencil Paint | Decorative Paint | Chemical Reactivator

Absorbent non-woven wiper (BMS 15-5 or equivalent) | Gloss

Prepainting and cleaning solvents | Solvent for Cleaning For Prepainting

Scotch-Brite 7447 pad | Sanding Dust | Powder | Topcoat

Scotch-Brite Clean and Finish pad (Very Fine, Aluminum Oxide)

Methyl Propyl Ketone (MPK) solvent

C-60 epoxy coated tack rag or equivalent

HVLP Spray Gun | Electrostatic Spray Guns | Air Assisted Airless Spray Gun

Gloves | Protective Suit and Eyewear | Container

NSN: 8010-01-646-1109 (Pint (473 mL) Kit)



← NSN: 8010-01-600-2254 (11 fl oz (325 mL) Aerosol)

Formit® NSN's: 4730-01-612-9914, NSN: 4730-01-661-8773 (Formit®-18-Fan); 6850-01-492-2942 (Formit®-18-360);

4730-01-632-0156 (Formit®-18-STD-FOG); 6850-01-517-0963 (Formit®-18-90-FOG);

1560-01-658-8943 (with metal sleeve), 4730-01-659-5461 (without metal sleeve) (Formit®-48-360)

4730-01-632-0157 (Formit®-48-Fan)

For application questions regarding Sur-Prep® AP-1, contact Zip-Chem® Aviation Products at (1) 408 782 2335 or zipchem@addevmaterials.com.