

Safety Steps and Procedures To Follow Prior To Applying Sur-Prep® AR-58:

Refer to the **safety data sheet (SDS)**, **label**, and **technical data sheet (TDS)** prior to applying **Sur-Prep® AR-58** if you have any questions about the product.

Always wear gloves, protective clothing, and protective eyewear to prevent **Sur-Prep® AR-58** from contacting the skin and eyes.

Make sure there is proper ventilation in the area where the **Sur-Prep® AR-58** will be applied and wear a proper mask to prevent the inhalation of fumes from **Sur-Prep® AR-58**.

Make sure there are no sparks, open flames, or other combustible sources in the area where **Sur-Prep® AR-58** will be applied.

Always have adequate lighting to see where **Sur-Prep® AR-58** is being applied and to inspect areas for contamination and rework prior to applying **Sur-Prep® AR-58**.

Sur-Prep® AR-58 Features and Benefits:

Sur-Prep® AR-58 is a clear and colorless solvent blend adhesive remover that removes various adhesives from various substrates including metal and paper.

Sur-Prep® AR-58 evaporates completely and leaves no residue behind that would interfere with future bonding.

Sur-Prep® AR-58 does not remain embedded in paper and porous surfaces if used there.

Sur-Prep® AR-58 dries completely, has a broad solvency range, penetrates various adhesives, works various substrates, and softens adhesive quickly

Procedures For Applying The Sur-Prep® AR-58 and Areas Where It Can Be Applied:

Sur-Prep® AR-58 can be used on various substrates, such as metal, porous, and paper as well as in contact cleaning and general cleaning and degreasing applications and can be applied with bulk application equipment as well as spraying devices.

Test **Sur-Prep® AR-58** on small areas for compatibility with plastics.

Towelette and Bulk Application of Sur-Prep® AR-58:

Towelette Application:

Unfold the **Sur-Prep® AR-58** towelette and wipe over adhesive. Continue to wipe the area until the adhesive is completely removed.

Bulk and Spray Application Equipment (HVLP Guns, Airverter Spray Gun, Airless Spray Gun, and Electrostatic Spray Gun):

- 1.) Apply **Sur-Prep® AR-58** to the adhesive and debris that is on the substrate and continue to dampen the adhesive or debris with **Sur-Prep® AR-58** until adhesive and debris becomes tacky.
- 2.) Let **Sur-Prep® AR-58** sit for **1 minute**. While waiting, you can soak a rag with **Sur-Prep® AR-58**.
- 3.) After **1 minute** has passed, begin wiping the adhesive from the substrate or using a straight edge and scrape the adhesive or debris from the substrate. Continue wiping or scraping the adhesive or debris until it is completely removed.

Applying Sur-Prep® AR-58 Via HVLP Spray Gun, Air Assisted Spray Gun, Airless Spray Equipment, and Electrostatic Spray Gun:

1.) HVLP Spray Gun Setup

- A.) Determine the tip size for the gun. The recommended tip size for the gun should be **1.0 mm to 1.5 mm**.
- B.) Set the **air pressure**. This is very important because **Sur-Prep® AR-58** is applied **thin** so **too much pressure** will result in a **dry spray** and texture of **Sur-Prep® AR-58** while **too little pressure** will result in a **poor atomization** and **orange peeling** of **Sur-Prep® AR-58**.
- C.) If you see texture in the spray of **Sur-Prep® AR-58**, then increase the **air pressure** of your **HVLP gun**. If you see an **overspray cloud** of **Sur-Prep® AR-58**, then decrease the **air pressure** slightly. The proper spray pattern for **Sur-Prep® AR-58** should be a **slightly wet pass** with **no flooding or sagging** because **thinly applied products** like **Sur-Prep® AR-58** can run very fast.
- D.) One pattern that should be used when using the **HVLP gun** to apply **Sur-Prep® AR-58** is the **fan pattern** because it uses a **full wide fan spray** which provides better consistency and leveling when applying **Sur-Prep® AR-58** with the **HVLP spray guns**.
- E.) The **air pressure** when the trigger is pulled for the gun should be **20–30 PSI** even though most guns specify **10 PSI** at the **air cap**.
- F.) Always set the pressure with the **trigger fully pulled** because the **pressure drops under flow**.
- G.) Close off the **air** and **fluid adjustment knobs**.
- H.) Slowly open the **air adjustment knob** with the **trigger pulled**.
- I.) Open the **fluid adjustment knob** slowly until you see a **fine mist** from the **air cap**.
- J.) Continue to fine tune the settings until the desired spray pattern is achieved.

HVLP Spray Gun



Airverter HVLP Spray Gun



2.) Air Assisted Spray Gun Setup

- A.) Determine the tip size for the gun. The recommended tip size for the gun should be **1.0 mm to 1.5 mm**.
- B.) For **pressure settings**, use the **lowest pressure** possible so that **Sur-Prep® AR-58** can be spray applied as a **clean fan** with the width of the spray being shaped like a **fan**.
- C.) Slowly increase the **pressure** to the gun until the **fan spray pattern** of **Sur-Prep® AR-58** is fully developed and even and there are no **fingers** or **tails** on the edges of the spray equipment. If you hear a **harsh hissing noise** or see **fogging** in the spraying of the **Sur-Prep® AR-58**, then the **pressure** of the **air assisted spray gun** is **too high**. None of these observations should occur because **thin materials** like **Sur-Prep® AR-58** atomize very easily.
- D.) Set the **pump ratio** of the equipment to a range of **20:1 to 30:1**.
- E.) Setup the following parts for the **airless spray equipment** below.
 - *Displacement Pump With A Positive Piston Type
 - *Stainless Steel Filter With A High Pressure With 200-300 mesh element



Applying Sur-Prep® AR-58 Via HVLP Spray Gun, Air Assisted Spray Gun, Airless Spray Equipment, and Electrostatic Spray Gun (Continued From Page 2):

Air Assisted Spray Gun Setup (Continued From Page 2)

- F.) Maintain your distance of the gun from the surface as the distances between **air assisted spray guns** and other spray methods can vary. A good distance to follow for **air assisted spray guns** is about **12" or more**. If you spray apply **Sur-Prep® AR-58** at a distance closer than **12"**, then there will be a heavy buildup of **Sur-Prep® AR-58**, tiger stripping of material from the surface where the **Sur-Prep® AR-58** was applied, and a variation in the gloss of the **Sur-Prep® AR-58**.
- G.) Consider the passing speed of **Sur-Prep® AR-58** because the output of **Sur-Prep® AR-58** from **air assisted spray guns** can vary between other spray methods. Therefore, you may need to move faster or slower than other spray methods, such as **HVLP guns**.
- H.) The **Sur-Prep® AR-58** should be spray applied as a **smooth continual pass** with a **50% overlap**.

3.) Airless Spray Setup

- A.) Determine the tip size for the gun. The recommended tip size for the gun should be **1.0 mm to 1.5 mm**.
- B.) For **pressure settings**, use the **lowest pressure** possible so that **Sur-Prep® AR-58** can be spray applied as a **clean fan** with the width of the spray being shaped like a **fan**. The setup of **airless spray equipment** varies based on the size and type of gun that is being used but a good starting point for the **pressure** of the **airless spray gun** should be around **900-1200 PSI**.
- C.) Slowly increase the **pressure** to the gun until the **fan spray** pattern of **Sur-Prep® AR-58** is fully developed and even and there are no **fingers** or **tails** on the edges of the spray equipment. If you hear a **harsh hissing noise** or see **fogging** in the spraying of the **Sur-Prep® AR-58**, then the **pressure** of the **airless spray gun** is **too high**. None of these observations should occur because thin materials like **Sur-Prep® AR-58** atomize very easily.
- D.) Set the **pump ratio** of the equipment to a range of **20:1 to 30:1**.
- E.) Setup the following parts for the **airless spray equipment** below.
 - *Displacement Pump With A Positive Piston Type
 - *Stainless Steel Filter With A High Pressure With 200-300 mesh element
- F.) Maintain your distance of the gun from the surface as the distances between **airless spray guns** and other spray methods can vary. A good distance to follow for **airless spray guns** is about **12" or more**. If you spray apply **Sur-Prep® AR-58** at a distance closer than **12"**, then there will be a heavy buildup of **Sur-Prep® AR-58**, tiger stripping of material from the surface where the **Sur-Prep® AR-58** was applied, and a variation in the gloss of the **Sur-Prep® AR-58**.
- G.) Consider the passing speed of **Sur-Prep® AR-58** because the output of **Sur-Prep® AR-58** from **airless spray guns** can vary between other spray methods. Therefore, you may need to move faster or slower than other spray methods, such as **HVLP guns**.
- H.) The **Sur-Prep® AR-58** should be spray applied as a **smooth continual pass** with a **50% overlap**.

Airless Spray Equipment



Bulk Application Methods For Applying Sur-Prep® AR-58 (Continued From Page 3):

4.) Sur-Prep® AR-58 5 Gallon (18.9 Liter) Cart Sprayer Setup

- A.) Determine the tip size for the gun. The recommended tip size for the gun should be **1.0 mm to 1.5 mm**.
- B.) For **pressure settings**, use the **lowest pressure** possible so that **Sur-Prep® AR-58** can be spray applied as a **clean fan** with the width of the spray being shaped like a **fan**.
- C.) Slowly increase the **pressure** to the gun until the **fan spray** pattern of **Sur-Prep® AR-58** is fully developed and even and there are no **fingers** or **tails** on the edges of the spray equipment. If you hear a **harsh hissing noise** or see **fogging** in the spraying of the **Sur-Prep® AR-58**, then the **pressure** of the **5 Gallon (18.9 Liter) Cart Sprayer** is **too high**. None of these observations should occur because thin materials like **Sur-Prep® AR-58** atomize very easily.
- D.) Set the **pump ratio** of the equipment to a range of **20:1 to 30:1**.
- E.) Setup the following parts for the **5 Gallon (18.9 Liter) Cart Sprayer** below.
 - *Displacement Pump With A Positive Piston Type
 - *Stainless Steel Filter With A High Pressure With 200-300 mesh element
- F.) Maintain your distance of the gun from the surface as the distances between **5 Gallon (18.9 Liter) Cart Sprayer** and other spray methods can vary. A good distance to follow for **5 Gallon (18.9 Liter) Cart Sprayers** is about **12" or more**. If you spray apply **Sur-Prep® AR-58** at a distance closer than **12"**, then there will be a heavy buildup of **Sur-Prep® AR-58**, tiger stripping of material from the surface where the **Sur-Prep® AR-58** was applied, and a variation in the output of **Sur-Prep® AR-58**.
- G.) Consider the passing speed of **Sur-Prep® AR-58** because the output of **Sur-Prep® AR-58** from **5 Gallon (18.9 Liter) Cart Sprayers** can vary between other spray methods. Therefore, you may need to move faster or slower than other spray methods, such as **HVLP guns**.
- H.) The **Sur-Prep® AR-58** should be spray applied as a **smooth continual pass** with a **50% overlap**.



5.) Electro-Static Spray Gun Setup

- A.) Minimize the flow of **Sur-Prep® AR-58** for the required **coating speed** and **film thickness**.
- B.) Minimizing the target distance of spraying **Sur-Prep® AR-58**.
- C.) Ensure that the **Sur-Prep® AR-58** to be sprayed has a very high **resistivity** of at least **>1 mega-ohm**.
- D.) Attach charging unit to the gun and object to be sprayed with **Sur-Prep® AR-58**.
- E.) Gradually increase in-line **air pressure** so that the spray provides proper **Sur-Prep® AR-58** build at the required **coating speed** and ensure that the pressure does not exceed **100 psi**.
- F.) **Fluid pressure** is typically **400-800 psi** so make sure it is set to that **psi range**.
- G.) Turn on **charging unit** and begin spraying **Sur-Prep® AR-58**.

Electro-Static Spray Gun



Applying Sur-Prep® AR-58 Via Aerosol:

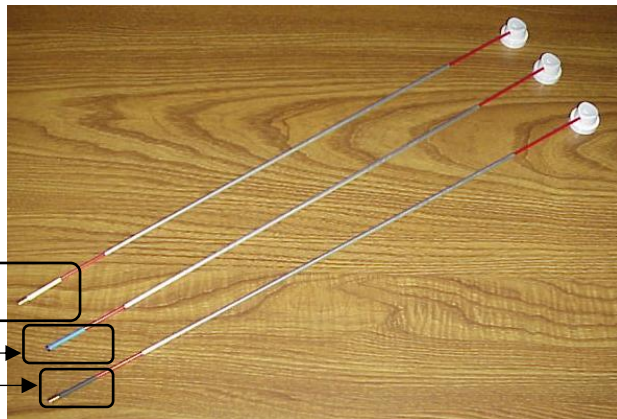
- 1.) Apply **Sur-Prep® AR-58** to the adhesive and debris that is on the substrate and continue to dampen the adhesive or debris with **Sur-Prep® AR-58** until adhesive and debris becomes tacky.
- 2.) Let **Sur-Prep® AR-58** sit for **1 minute**. While waiting, you can soak a rag with **Sur-Prep® AR-58**.
- 3.) After **1 minute**, wipe the adhesive from the substrate or use a straight edge and scrape the adhesive or debris from the substrate. Continue wiping or scraping the adhesive or debris until it is completely removed.

The **Sur-Prep® AR-58** aerosol can also be used with the **Formit®** extension wands that are for use with all **Zip-Chem®** aerosols to reach difficult to access areas.

*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



The **Sur-Prep® AR-58** can also be applied via the **Zip-Chem® Aerosol Trigger Sprayer** that is designed for use with all of **Zip-Chem®**'s aerosol products.



Please reach out to a **Zip-Chem®** application expert for tips on how to properly apply **Sur-Prep® AR-58**.

Sur-Prep® AR-58 Packaging Pictures and Other Materials To Purchase:

Sur-Prep® AR-58

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**100283**
- *9 gram Towelette-**101880**
- *Case of 12 each Quart (946 mL)-**103266**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**103262**
- *5 Gallon (18.9 Liter) Pails-**103259**
- *Special packaging upon request

Zip-Chem® Aerosol Trigger Sprayer

***010040**

Gloves | Protective Eyewear | Rag and Proper Wiping Materials

Proper Mask | Scraping Equipment | Protective Clothing

Spraying Equipment | Bulk Application Equipment

Formit®

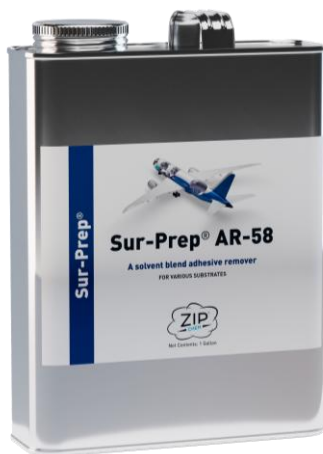
- *Formit®-18-Fan-006224
- *Formit®-18-180-006226
- *Formit®-18-360-006227
- *Formit®-18-STD-FOG-008352
- *Formit®-18-90-FOG-008353
- *Formit®-48-Fan-008460
- *Formit®-36-360-009131
- *Formit®-48-360 with metal sleeve-009132
- *Formit®-48-360 without metal sleeve-100424
- *Formit®-29-360-101321
- *Formit® Sample Pack (3 each of Formit®-18-Fan, Formit®-18-180, Formit®-18-360, Formit®-18-STD-FOG-100107)

Ventilation Equipment | Lighting Equipment

Spill Containment Vessels and other proper devices for collecting material

Formit® NSN's: 4730-01-612-9914, 4730-01-661-8773 (Formit®-18-Fan)
6850-01-492-2942 (Formit®-18-360)
4730-01-632-0156 (Formit®-18-STD-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)



← Sur-Prep® AR-58 1 Gallon (3.8 Liter) Can

Sur-Prep® AR-58
16 fl oz (473 mL)
Aerosol →



For application questions regarding the Sur-Prep® AR-58, contact Zip-Chem® Aviation Products at (1) 408 782 2335 or zipchem@addevmaterials.com.