Sur-Prep® AR-58 Instruction Manual

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

Refer to the safety data sheet (SDS) 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 airflow and ventilation in the area where the **Sur-Prep® AR-58** will be applied and wear respirating devices if the area where **Sur-Prep® AR-58** will be applied in has insufficient ventilation.

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

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.

Sur-Prep® AR-58 Instruction Manual

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

HVLP Spray Gun

A.) Set the air pressure. This is very important because if there is too much pressure, then the texture and spray of **Sur-Prep® AR-58** will be dry. Too little pressure however, results in a poor atomization and orange peeling of **Sur-Prep® AR-58**.

B.) 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.

C.) 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**.

D.) 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.

E.) Always set the pressure with the trigger fully pulled because the pressure drops under flow.

F.) Close off the air and fluid adjustment knobs.

G.) Slowly open the air adjustment knob with the trigger pulled.

H.) Open the fluid adjustment knob slowly until you see a **fine mist** from the air cap.

I.) Continue to fine tune the settings until the desired spray pattern is achieved.

2.) Air Assisted Spray Gun Setup

Airverter Spray Gun

A.) Determine the tip size for the gun. This is very important especially for a thin material**,** such as **Sur-Prep® AR-58**.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **Sur-Prep® AR-58** because the applied material will exhibit the following characteristics below.

*Too much **Sur-Prep® AR-58** being applied
***Sur-Prep® AR-58** runs
*Orange peel in the **Sur-Prep® AR-58**
*An overspray cloud in the applied **Sur-Prep® AR-58**

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 **air assisted 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 **air assisted spray gun** should be around **900-1200 PSI**.

C.) Slowly increase the pressure of 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**.

Sur-Prep® AR-58 Instruction Manual

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)

E.) Setup the following parts for the **air assisted 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 **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, 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**.

I.) The table below lists some differences between the **HVLP** spray method and the **air assisted spray gun** methods.

HVLP	Air Assisted Spray Gun
Soft spray of **Sur-Prep® AR-58**	More aggressive fan spray of **Sur-Prep® AR-58**
Slow **Sur-Prep® AR-58** output	Fast output of **Sur-Prep® AR-58**
Very forgiving when applying **Sur-Prep® AR-58**	**Sur-Prep® AR-58** can run quickly
Less overspray bounce of **Sur-Prep® AR-58**	More fogging potential for **Sur-Prep® AR-58** than with **HVLP** spray method

3.) Airless Spray Setup

Airless Spray Equipment

A.) Determine the tip size for the gun. This is very important especially for a thin material, such as **Sur-Prep® AR-58**.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **Sur-Prep® AR-58** because the applied material will exhibit the following characteristics below.
*Too much **Sur-Prep® AR-58** being applied
***Sur-Prep® AR-58** runs
*Orange peel in the **Sur-Prep® AR-58**
*An overspray cloud in the applied **Sur-Prep® AR-58**

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 of 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**.

Sur-Prep® AR-58 Instruction Manual

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

Airless Spray Setup (Continued From Page 3)

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** .

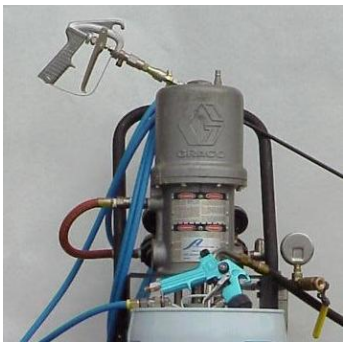
G.) Consider the passing speed of **Sur-Prep® AR-58** because the output of **Sur-Prep® AR-58** from **airless spray guns** can vary between other spray methods. Therefore, you may need to move faster or slower than other spray methods, such as **HVLP** guns.

H.) The **Sur-Prep® AR-58** should be spray applied as a **smooth continual pass** with a **50% overlap**.

I.) The table below lists some differences between the **HVLP** spray method and the **airless spray gun** methods.

HVLP	Airless Spray Gun
Soft spray of **Sur-Prep® AR-58**	More aggressive fan spray of **Sur-Prep® AR-58**
Slow **Sur-Prep® AR-58** output	Fast output of **Sur-Prep® AR-58**
Very forgiving when applying **Sur-Prep® AR-58**	**Sur-Prep® AR-58** can run quickly
Less overspray bounce of **Sur-Prep® AR-58**	More fogging potential for **Sur-Prep® AR-58** than with **HVLP** spray method

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



A.) Determine the tip size for the gun. This is very important especially for a thin material such as **Sur-Prep® AR-58** including thin coatings, such as clears and sealers.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **Sur-Prep® AR-58** because the applied material will exhibit the following characteristics below.
*Too much **Sur-Prep® AR-58** being applied
***Sur-Prep® AR-58** runs
*Orange peel in the **Sur-Prep® AR-58**
*An overspray cloud in the applied **Sur-Prep® AR-58**

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 **5 Gallon (18.9 Liter) Cart Sprayers** varies based on the size and type of gun that is being used but a good starting point for the pressure of the **5 Gallon (18.9 Liter) Cart Sprayer** should be around **900-1200 PSI**.

C.) Slowly increase the pressure of 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

Sur-Prep® AR-58 Instruction Manual

Bulk Application Methods For Applying Sur-Prep® AR-58 (Continued From Page 4):

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

F.) Maintain your distance of the gun from the surface as the distances between **5 Gallon Cart Sprayers** 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 **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**.

I.) The table below lists some differences between the **HVLP** spray method and the **5 Gallon (18.9 Liter) Cart Sprayer** spray method.

HVLP	Sur-Prep® AR-58 5 Gallon (18.9 Liter) Cart Sprayer
Soft spray of **Sur-Prep® AR-58**	More aggressive fan spray of **Sur-Prep® AR-58**
Slow **Sur-Prep® AR-58** output	Fast output of **Sur-Prep® AR-58**
Very forgiving when applying **Sur-Prep® AR-58**	**Sur-Prep® AR-58** can run quickly
Less overspray bounce of **Sur-Prep® AR-58**	More fogging potential for **Sur-Prep® AR-58** than with **HVLP** spray method

4.) Electro-Static Spray Gun Setup

Electro-Static Spray Gun

A.) Minimize the flow of **Sur-Prep® AR-58** for the required application of the material.

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** .

It is important to ensure that the **HVLP**, **air assisted**, **airless**, **5 Gallon (18.9 Liter) Cart Sprayer**, or **electrostatic paint gun** for applying **Sur-Prep® AR-58** are properly setup for the following reasons below.

*Decrease odor, fogging, and mist from the application of **Sur-Prep® AR-58**
*Increase the transfer efficiency of the **Sur-Prep® AR-58** from the equipment to the area it needs to be applied to
*Ensure that **Sur-Prep® AR-58** will be applied according to how it was designed to be applied with respect to **optimum weight to performance balance**

Sur-Prep® AR-58 Instruction Manual

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.

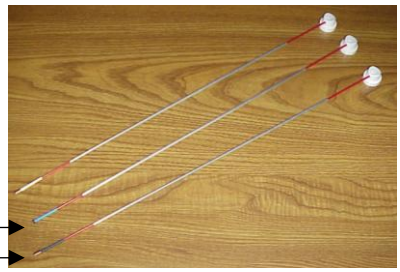
2.) Let **Sur-Prep® AR-58** sit for **1 minute**. While waiting, you can soak a rag with **Sur-Prep® AR-58**.

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.

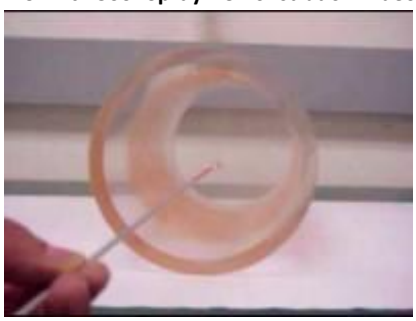
Below is a video that shows **Sur-Prep® AR-58** being applied via aerosol to a substrate along with the debris or adhesive that is getting scraped and wiped off after **Sur-Prep® AR-58** is spray applied to the substrate.

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.

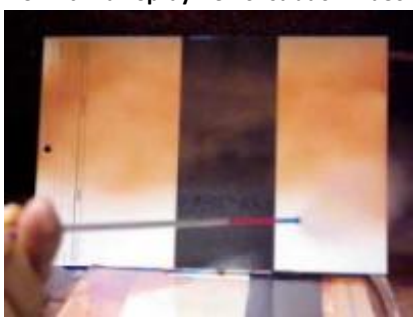
* **Formit® 360° Spray** (White Tube) Wand
* **Formit® Fan Spray** Spray (Blue Tube) Wand
* **Formit® 180° Spray** (Black Tube) Wands



Formit® 360° Spray Demonstration Video



Formit® Fan Spray Demonstration Video



Formit® 180° Spray Demonstration Video

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Sur-Prep® AR-58 Instruction Manual

Applying Sur-Prep® AR-58 Via Aerosol (Continued From Page 5):

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

Zip-Chem® Aerosol Trigger Sprayer

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 Wiping Materials

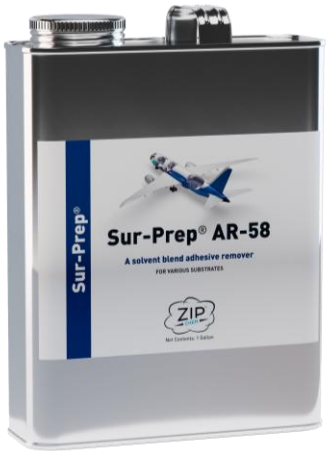
Respirating Equipment | Scraping Equipment | Protective Clothing

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 | Wiping Devices

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**.

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