ZC-026UV Instruction Manual

Procedures For Preparing Area Prior To Applying ZC-026UV:

Always refer to the safety data sheet (SDS) prior to applying **ZC-026UV** if you have safety or regulatory questions about the product.

Always wear gloves, protective clothing, and protective eyewear to prevent **ZC-026UV** from making contact with the skin and eyes.

Make sure there is proper airflow in the area where **ZC-026UV** will be applied and always wear respiratory protection if there is low ambient air movement or when working in confined spaces.

Ensure that any primers, sealants, and other coatings are cured before applying **ZC-026UV**.

Vacuum and wipe surfaces so that moisture and other foreign material that is on the surface are removed.

Clean surfaces with the following aliphatic naphtha based wipe solvents, such as **Sur-Prep® 3160**, **Sur-Prep® 3167**, and **D-5640NS/ZC-640**.

Mask areas that will not be coated with **ZC-026UV**, such as electrical connectors, pins and joints in sliding surface contact, control cables, pulley and quadrant cable grooves, bushing and bearings for all types, which includes lined Teflon, silicone or rubber seals, high temperature areas that are above 200°f (93°c), wire bundles, lubricated surfaces (i.e hydraulic actuator pistons), drain valves, and oxygen system components (i.e. bottles, pressure metering and indicating equipment and connections, ect). If the sprayed form of **ZC-026UV** shows fisheyes, separations, or anything that prevents it from being homogeneous and free of voids, then the surface is not clean and needs to be vacuumed and/or wiped again. An example of a masked area is shown below.

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ZC-026UV Product Information and Benefits:

ZC-026UV is a medium to heavy duty water displacing corrosion preventive that has a thin film, contains ultraviolet tracer dye, and contains a fluorescent dye for quick identification of material in UV light (UV dye fluoresces the strongest at UV wavelengths of around **388 nm (UVA)**).

ZC-026UV is safe for use on plastics, paints, and insulation, prevents fretting corrosion, and protects avionic components, connectors, and items being shipped and stored.

ZC-026UV withstands temperatures as low as **-55°C (-67°F)** and as high as **85°C (185°F) continuously** and withstands temperatures up to **105°C (221°F)** for only **500 hours cumulative**.

ZC-026UV prevents disruption contact between connectors and protects these parts in the harshest environments.

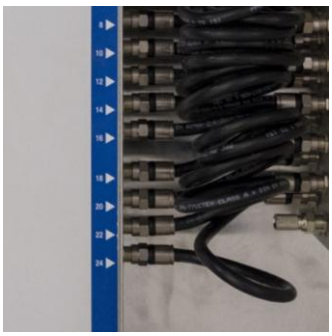
ZC-026UV protects electrical connectors from corroding, protects cables and surfaces, and is miscible with lubricating oils.

ZC-026UV is free of chromates and heavy metals and has a low toxicity level.

ZC-026UV provides initial protection for in-service treatment of critical areas as well as the shipment and storage of items.

Areas Where ZC-026UV Can Be Applied On:

ZC-026UV can be applied on plastics, paints, insulation, cables, highly critical metal surfaces, avionic components, connectors including electrical ones, items being shipped and stored, and interior and exterior aircraft surfaces.

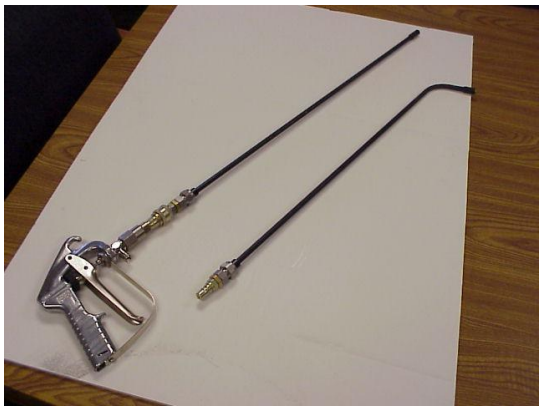


ZC-026UV Instruction Manual

Procedures For Applying ZC-026UV:

ZC-026UV can be applied via spray and bulk application equipment.

High Volume Low Pressure (HVLP) Spray Gun



Airverter Spray Gun (Air Assisted Spray Gun)

Airless Spray Gun

ZC-026UV 5 Gallon (18.9 Liter) Cart Sprayer

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 **ZC-026UV** will be dry. Too little pressure however, results in a poor atomization and orange peeling of **ZC-026UV**.

B.) If you see texture in the spray of **ZC-026UV**, then increase the air pressure of your HVLP gun. If you see an overspray cloud of **ZC-026UV**, then decrease the air pressure slightly. The proper spray pattern for **ZC-026UV**should be a **slightly wet pass** with **no flooding or sagging** because thinly applied products like **ZC-026UV** can run very fast.

C.) One pattern that should be used when using the HVLP gun to apply **ZC-026UV** is the **fan pattern** because it uses a full wide fan spray which provides better consistency and leveling when applying **ZC-026UV** 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.

ZC-026UV Instruction Manual

Procedures For Applying ZC-026UV (Continued From Page 3):

HVLP Spray Gun Setup (Continued From Page 3)

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 **ZC-026UV** including thin coatings, such as clears and sealers.

Note: Do not increase the gun tip size especially to **.015" or more** when applying **ZC-026UV** because the applied material will exhibit the following characteristics below.

*Too much **ZC-026UV** being applied
***ZC-026UV** runs
*Orange peel in the **ZC-026UV**
*An overspray cloud in the applied **ZC-026UV**

B.) For pressure settings, use the lowest pressure possible so that **ZC-026UV** 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 **ZC-026UV** 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 **ZC-026UV**, then the pressure of the air assisted spray gun is too high. None of these observations should occur because thin materials like **ZC-026UV** 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 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 **ZC-026UV** at a distance closer than **12"**, then there will be a heavy buildup of **ZC-026UV**, tiger stripping of material from the surface where the **ZC-026UV** was applied, and a variation in the gloss of the **ZC-026UV**.

G.) Consider the passing speed of **ZC-026UV** because the output of **ZC-026UV** 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 **ZC-026UV** 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 **ZC-026UV**	More aggressive fan spray of **ZC-026UV**
Slow **ZC-026UV** output	Fast output of **ZC-026UV**
Very forgiving when applying **ZC-026UV**	**ZC-026UV** can run quickly
Less overspray bounce of **ZC-026UV**	More fogging potential for **ZC-026UV** than with HVLP spray method

ZC-026UV Instruction Manual

Procedures For Applying ZC-026UV (Continued From Page 4):

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 **ZC-026UV** including thin coatings, such as clears and sealers.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **ZC-026UV** because the applied material will exhibit the following characteristics below.
*Too much **ZC-026UV** being applied
***ZC-026UV** runs
*Orange peel in the **ZC-026UV**
*An overspray cloud in the applied **ZC-026UV**

B.) For pressure settings, use the lowest pressure possible so that **ZC-026UV** 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 **ZC-026UV** 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 **ZC-026UV**, then the pressure of the airless spray gun is too high. None of these observations should occur because thin materials like **ZC-026UV** 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 **ZC-026UV** at a distance closer than **12"**, then there will be a heavy buildup of **ZC-026UV**, tiger stripping of material from the surface where the **ZC-026UV** was applied, and a variation in the gloss of the **ZC-026UV**.

G.) Consider the passing speed of **ZC-026UV** because the output of **ZC-026UV** 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 **ZC-026UV** 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 **ZC-026UV**	More aggressive fan spray of **ZC-026UV**
Slow **ZC-026UV** output	Fast output of **ZC-026UV**
Very forgiving when applying **ZC-026UV**	**ZC-026UV** can run quickly
Less overspray bounce of **ZC-026UV**	More fogging potential for **ZC-026UV** than with HVLP spray method

ZC-026UV Instruction Manual

Procedures For Applying ZC-026UV (Continued From Page 5):

4.) ZC-026UV 5 Gallon (18.9 Liter) Cart Sprayer

A.) Determine the tip size for the gun. This is very important especially for a thin material such as **ZC-026UV** including thin coatings, such as clears and sealers.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **ZC-026UV** because the applied material will exhibit the following characteristics below.
*Too much **ZC-026UV** being applied
***ZC-026UV** runs
*Orange peel in the **ZC-026UV**
*An overspray cloud in the applied **ZC-026UV**

B.) For pressure settings, use the lowest pressure possible so that **ZC-026UV** 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 **ZC-026UV** 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 **ZC-026UV**, then the pressure of the airless spray gun is too high. None of these observations should occur because thin materials like **ZC-026UV** 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 **ZC-026UV** at a distance closer than **12"**, then there will be a heavy buildup of **ZC-026UV**, tiger stripping of material from the surface where the **ZC-026UV** was applied, and a variation in the gloss of the **ZC-026UV**.

G.) Consider the passing speed of **ZC-026UV** because the output of **ZC-026UV** 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 **ZC-026UV** 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	ZC-026UV 5 Gallon (18.9 Liter) Cart Sprayer
Soft spray of **ZC-026UV**	More aggressive fan spray of **ZC-026UV**
Slow **ZC-026UV** output	Fast output of **ZC-026UV**
Very forgiving when applying **ZC-026UV**	**ZC-026UV** can run quickly
Less overspray bounce of **ZC-026UV**	More fogging potential for **ZC-026UV** than with HVLP spray method

ZC-026UV Instruction Manual

Procedures For Applying ZC-026UV (Continued From Page 6):

5.) Electro-Static Spray Gun Setup

Electro-Static Spray Gun

A.) Minimize the flow of **ZC-026UV** for the required coating speed and film thickness.

B.) Minimizing the target distance of spraying **ZC-026UV**.

C.) Ensure that the **ZC-026UV** 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 **ZC-026UV**.

E.) Gradually increase in-line air pressure so that the spray provides proper **ZC-026UV** 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 **ZC-026UV**.

It is important to ensure that the HVLP, air assisted, airless, or electrostatic paint gun for applying **ZC-026UV** are properly setup for the following reasons below.

*Decrease odor, fogging, and mist from the application of **ZC-026UV**
*Increase the transfer efficiency of the **ZC-026UV** from the equipment to the area it needs to be applied to
*Ensure that **ZC-026UV** will be applied according to how it was designed to be applied with respect to **optimum weight to performance balance**

Materials For Removing ZC-026UV:

ZC-026UV can be removed with **ZC-640/D-5640NS**, **Sur-Prep® 3160**, or **Sur-Prep® 3167**.

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ZC-026UV Instruction Manual

ZC-026UV Product Pictures and Zip-Chem® Product Packaging Part Numbers:

ZC-026UV
*Case of 12 each Quart (946 mL)-**010357**
*Case of 4 each Gallon (4 each of 7.8 Liter) Cans-**005460**
*5 Gallon (18.9 Liter) Pail-**004734**
*55 Gallon (208 Liter) Drum-**009138**
*Specialized forms of packaging available upon request

D-5640NS/ZC-640
*Case of 12 of 16 fl oz (473 mL) Aerosols **(D-5640NS)-002070**
*Case of 4 each Gallon (4 each of 7.8L) Cans **(ZC-640)-009430**
*5 Gallon (18.9 Liter) Pails **(ZC-640)-002155**
*55 Gallon (208 Liter) Drum **(ZC-640)-108181**
*Specialized forms of packaging available upon request **(ZC-640)**

Sur-Prep® 3160
*Case of 12 of 16 fl oz (473 mL) Aerosols-**010938**
*Case of 4 each Gallon (4 each of 7.8L) Cans-**008578**
*5 Gallon (18.9 Liter) Pails-**008579**
*55 Gallon (208 Liter) Drum-**008580**
*Case of 6 Canisters of Towelettes-**100026**
*Case of 100 Individual Towelettes-**011844**
*Specialized packaging forms for customers

Sur-Prep® 3167
*Case of 12 of 16 fl oz (473 mL) Aerosols-**103765**
*Case of 4 each Gallon (4 each of 7.8L) Cans-**103762**
*5 Gallon (18.9 Liter) Pails-**103763**
*55 Gallon (208 Liter) Drum-**103764**
*Specialized forms of packaging available upon request

Gloves | Protective Eyewear | Protective Clothing | Vacuum

Masking Tape | Respiration Equipment | Wiping Materials | Ventilation Equipment | Bulk Application Equipment

Spray Equipment | Aliphatic Naphtha Based Wipe Solvents

← ***ZC-026UV 1 Gallon (3.8 Liter) Cans (009424)**

Sur-Prep® 3160 NSN: 6850-01-633-9843 (16 fl oz (473 mL) Aerosol); **D-5640NS NSN:** 8030-01-597-6958 (16 fl oz (473 mL) Aerosol)

For application questions regarding **ZC-026UV**, contact **Zip-Chem® Aviation Products** at (1) 408 782 2335 or zipchem@addevmaterials.com.

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