

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

Always refer to the **safety data sheet (SDS)**, **technical data sheet (TDS)**, and **label** prior to applying **ZC-026UV** if you have any 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 a proper mask to prevent the inhalation of fumes from **ZC-026UV**.

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

Ensure that there is proper lighting to see where **ZC-026UV** is being applied and to inspect areas for contamination and rework prior to 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.

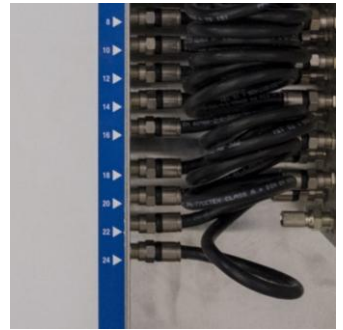
ZC-026UV protects electrical connectors from corroding, protects cables and surfaces, and is miscible with lubricating oils.

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.



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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 (HVLP 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

- 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 **ZC-026UV** is applied **thin** so **too much pressure** will result in a **dry spray** and texture of **ZC-026UV** while **too little pressure** will result in a **poor atomization** and **orange peeling** of **ZC-026UV**.
- C.) 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.
- D.) 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**.
- 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**.

HVLP Spray Gun



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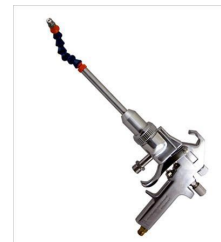
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Procedures For Applying ZC-026UV (Continued From Page 3):

HVLP Spray Gun Setup (Continued From Page 3)

- 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.

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 **ZC-026UV** 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 **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**.



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

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 **ZC-026UV** 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 **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**.



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



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

ZC-026UV 5 Gallon (18.9 Liter) Cart Sprayer Setup (Continued From Page 5)

- 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 **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 output of **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**.

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**.

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 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 | Proper Mask | Spray Equipment

Ventilation Equipment | Other Product Application Equipment

Spill Containment Vessels and other proper devices for collecting material spills and overruns | Curing Devices

Rags, Cloths, Towels, and other proper wiping materials

Aliphatic Naphtha Based Wipe Solvents | Lighting Equipment

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)



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

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



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