Noxit® 86 Instruction Manual

Safety Steps and Procedures To Follow Prior To Applying Noxit® 86:

Always refer to the **safety data sheet (SDS)**, **technical data sheet (TDS)**, and **label** prior to applying **Noxit® 86** if you have any questions about this product.

Always wear gloves, protective clothing, and protective eyewear to prevent **Noxit® 86** from making contact with the skin and eyes.

Make sure there is proper airflow in the area where **Noxit® 86** will be applied and wear a proper mask to prevent the inhalation of fumes from **Noxit® 86**.

Make sure there are no sparks, open flames, or other combustion sources in the area where **Noxit® 86** will be applied.

Cure sealants to recommendations set by the manufacturer prior to applying **Noxit® 86**.

Vacuum and wipe surfaces so that moisture and other foreign material that is on them can be removed.

Ensure that there is adequate lighting available to see where **Noxit® 86** is being applied and inspecting areas for contamination and rework prior to applying **Noxit® 86**.

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



If the sprayed form of **Noxit® 86** 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.

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Safety Steps and Procedures To Follow Prior To Applying Noxit® 86 Continued From Page 1):

It is imperative that **Type III** surfaces are clean and free of dirt and other contaminants. Clean these surfaces with **Sur-Prep® 123**, **Sur-Prep® 5677**, **Sur-Prep® 5680**, and **D-5600NS/ZC-600**.



Areas To Mask Prior To Applying Noxit® 86:



Mask areas that will not to be coated, such as:

* Electrical Connectors
* Pins In Sliding Surface Contact
* 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
* Wire Bundles
* Lubricated Surfaces
* Drain Valves
* Oxygen System Components (i.e. Bottles, Pressure Metering and Indicating Equipment and Connections)

Noxit® 86 Features and Benefits:

Noxit® 86 is a heavy duty, water displacing, non-drying, thin film, corrosion preventive compound that prevents corrosion, and is on the **QPL** for **Mil-PRF-81309H Type II & III**.

*__Type II__ usage involves the daily corrosion duties of the maintainer for general corrosion prevention to latches, hinges, hardware, etc on all types of aircraft. It can be used for short term tooling and equipment storage to prevent flash corrosion.

*__Type III__ usage is primarily for avionics applications for connectors, circuit cards, motherboards, ect.

Noxit® 86 is an integral part of the **corrosion control program** that is suited for **service use** due to its miscibility with lubricating oil.

Noxit® 86 contacts corrosion in all areas of the airplane and does not harm most paints, plastics, or insulation.

Noxit® 86 has a low toxicity level, contains no ozone depleting chemicals, and is free of chromates and heavy metals.

Noxit® 86 provides protection for critical areas needing in-service treatment of those areas and provides protection during shipment and storage.

Noxit® 86 protects cables and interior and exterior aircraft surfaces and provides light lubrication.

Areas Where Noxit® 86 Should Be Applied:

Noxit® 86 should be applied on highly critical metal surfaces, interior aircraft surfaces, exterior aircraft surfaces, plastics, insulation, paints, cables, all areas of the airplane, critical areas, and areas needing in-service treatment.

Procedures For Applying Noxit® 86:

Use the following equipment for applying **Noxit® 86**.

*HVLP Guns
*Airless Spray Equipment
*Aerosol
***Formit®** Extension Wands-For use with all **Zip-Chem®** aerosols to reach difficult to access areas, such as stringer edges.
***Zip-Chem® Aerosol Trigger Sprayer** that is designed for use with any **Zip-Chem®** aerosol can
*Other Spray Equipment

HLVP Gun



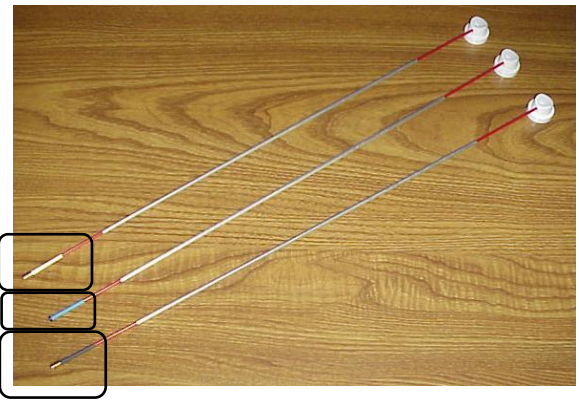
Zip-Chem® Aerosol Trigger Sprayer



ZIP® CHEM Part of & ADDEV MATERIALS

Noxit® 86 Instruction Manual

Procedures For Applying Noxit® 86 (Continued From Page 3):



*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



When used in conjunction with the **Formit®** extension wands, **Noxit® 86** can form a corrosion inhibiting fog to coat areas that are difficult to reach. See a visual demonstration of what this fogging looks like below.



Noxit® 86 Instruction Manual

Applying Noxit® 86 (Continued From Page 4):

The application process for **Type II** involves directing **Noxit® 86** into the required areas with little to no overapplication of the material involved. If **Noxit® 86** is overapplied, then wipe the excess material with a dry rag

The application process for **Type III** involves applying **Noxit® 86** to avionic connectors. Apply **Noxit® 86** to the interior of the connector and allow the excess material to run out of it. Assemble the connector after the excess **Noxit® 86** is no longer present there.

Please reach out to a **Zip-Chem®** application expert for tips on how to properly apply **Noxit® 86**.

1.) HVLP Spray Gun Setup

HVLP Spray Gun



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 **Noxit® 86** is applied **thin** so **too much pressure** will result in a **dry spray** and texture of **Noxit® 86** while **too little pressure** will result in a **poor atomization** and **orange peeling** of **Noxit® 86**.

C.) If you see texture in the spray of **Noxit® 86**, then increase the **air pressure** of your **HVLP gun**. If you see an **overspray cloud** of **Noxit® 86**, then decrease the **air pressure** slightly. The proper spray pattern for **Noxit® 86** should be a **slightly wet pass** with **no flooding or sagging** because **thinly applied products** like **Noxit® 86** can run very fast.

D.) One pattern that should be used when using the **HVLP gun** to apply **Noxit® 86** is the **fan pattern** because it uses a **full wide fan spray** which provides better consistency and leveling when applying **Noxit® 86** 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**.

Airverter HVLP Spray Gun



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.

2.) Air Assisted Spray Gun Setup

Air Assisted Spray Gun



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 **Noxit® 86** 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 **Noxit® 86** 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 **Noxit® 86**, then the **pressure** of the **air assisted spray gun** is **too high**. None of these observations should occur because **thin materials** like **Noxit® 86 atomize** very easily.

Applying Noxit® 86 (Continued From Page 5):

Air Assisted Spray Gun Setup (Continued From Page 5):

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 **Noxit® 86** at a distance closer than **12"**, then there will be a heavy buildup of **Noxit® 86**, tiger stripping of material from the surface where the **Noxit® 86** was applied, and a variation in the gloss of the **Noxit® 86**.

G.) Consider the passing speed of **Noxit® 86** because the output of **Noxit® 86** 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 **Noxit® 86** should be spray applied as a **smooth continual pass** with a **50% overlap**.

3.) Airless Spray Setup

Airless Spray Equipment



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 **Noxit® 86** 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 **Noxit® 86** 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 **Noxit® 86**, then the **pressure** of the **airless spray gun** is **too high**. None of these observations should occur because thin materials like **Noxit® 86** 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 **Noxit® 86** at a distance closer than **12"**, then there will be a heavy buildup of **Noxit® 86**, tiger stripping of material from the surface where the **Noxit® 86** was applied, and a variation in the gloss of the **Noxit® 86**.

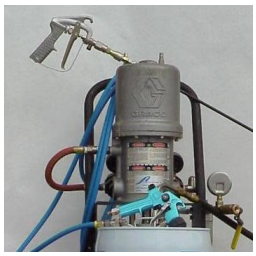
G.) Consider the passing speed of **Noxit® 86** because the output of **Noxit® 86** from **airless spray guns** can vary between other spray methods. Therefore, you may need to move faster or slower than other spray methods, such as **HVLP guns**.

H.) The **Noxit® 86** should be spray applied as a **smooth continual pass** with a **50% overlap**.

Applying Noxit® 86 (Continued From Page 6):

4.) Noxit® 86 5 Gallon (18.9 Liter) Cart Sprayer Setup

5 Gallon Cart Sprayer



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 **Noxit® 86** 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 **Noxit® 86** 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 **Noxit® 86**, then the **pressure** of the **airless spray gun** is **too high**. None of these observations should occur because thin materials like **Noxit® 86** 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 **Noxit® 86** at a distance closer than **12"**, then there will be a heavy buildup of **Noxit® 86**, tiger stripping of material from the surface where the **Noxit® 86** was applied, and a variation in the gloss of the **Noxit® 86**.

G.) Consider the passing speed of **Noxit® 86** because the output of **Noxit® 86** 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 **Noxit® 86** 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 **Noxit® 86** for the required **coating speed** and **film thickness**.

B.) Minimizing the target distance of spraying **Noxit® 86**.

C.) Ensure that the **Noxit® 86** 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 **Noxit® 86**.

E.) Gradually increase in-line **air pressure** so that the spray provides proper **Noxit® 86** 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 **Noxit® 86**.

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Tips For Removing Noxit® 86:

1.) Type II and **III Noxit® 86** can be removed with **Sur-Prep® 3160**, **Sur-Prep® 3167**, and **D-5640NS/ZC-640**.

2.) Type III Noxit® 86 can be removed with a solvent that is approved to an avionics specification such as **MIL-PRF-29608** or various **OEM** and **AMS specifications**.

Noxit® 86 Product Pictures, Zip-Chem® Product Packaging Part Numbers, and Other Materials To Purchase:

Noxit® 86
*Case of 12 of 16 fl oz (473 mL) Aerosols-**002049**
*Case of 4 each Gallon (4 each of 9.8 Liter) Cans-**008997**
*5 Gallon (18.9 Liter) Pail-**008998**
*55 Gallon (208 Liter) Drum-**008999**
*Specialized forms of packaging available upon request

Sur-Prep® 3167
*Case of 12 of 16 fl oz (473 mL) Aerosols-**103765**
*Case of 4 each Gallon (4 each of 9.8 Liter) Cans-**103762**
*5 Gallon (18.9 Liter) Pail-**103763**
*55 Gallon (208 Liter) Drum-**103764**
*Specialized forms of packaging available upon request

Sur-Prep® 3160
*Case of 12 of 16 fl oz (473 mL) Aerosols-**010938**
*Case of 4 each Gallon (4 each of 9.8 Liter) Cans-**008578**
*5 Gallon (18.9 Liter) Pail-**008579**
*55 Gallon (208 Liter) Drum-**008580**
*Case of 6 Canisters of Towelettes-**100026**
*Case of 100 Individual Towelettes-**011844**
*Specialized forms of packaging available upon request

Sur-Prep® 123
*Case of 12 Aerosols-**102815**
*10 Pound (4536 gram) Cylinder-**102933**
*50 Pound (22680 gram) Cylinder-**102934**
*Special packaging upon request

Sur-Prep® 5680
*Case of 12 of 16 fl oz (473 mL) Aerosols-**106592**
*Case of 10 each Gallon (4 each of 3.8 Liter) Cans-**106593**
*5 Gallon (18.9 Liter) Pail-**106594**
*55 Gallon (208 Liter) Drum-**106595**
*Special packaging upon request

Tin Foil	Gloves	Protective Eyewear	Spray Equipment

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-Fan-008460**
***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**

D-5640NS/ZC-640
*16 fl oz (473 mL) Aerosol-**002070 (D-5640NS)**
*Case of 4 each Gallon (4 each of 9.8 Liter) Cans-**009430 (ZC-640)**
*5 Gallon (18.9 Liter) Pail-002155 **(ZC-640)**
*55 Gallon (208 Liter) Drum-008181 **(ZC-640)**
*Specialized forms of packaging available upon request

Zip-Chem® Aerosol Trigger Sprayer
*010040

Sur-Prep® 5677
*Case of 12 of 16 fl oz (473 mL) Aerosols-**100474**
*Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**100478**
*5 Gallon (18.9 Liter) Pail-**100481**
*55 Gallon (208 Liter) Drum-**100482**
*Special packaging upon request

D-5600NS/ZC-600
*16 fl oz (473 mL) Aerosol **(D-5600NS)**-**002063**
*Case of 10 each Gallon (4 each of 3.8 Liter) Cans **(ZC-600)**-**009428**
*5 Gallon (18.9 Liter) Pail **(ZC-600)**-**009357**
*55 Gallon (208 Liter) Drum **(ZC-600)**-**008565**
*Special packaging upon request

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Noxit® 86 Product Pictures, Zip-Chem® Product Packaging Part Numbers, and Other Materials To Purchase (Continued From Page 8):

Tin Foil	Gloves	Protective Eyewear	Spray Equipment	Aliphatic Naphtha Based Wipe Solvents or Equivalents	Vacuum
Lighting Equipment	Protective Clothing	Curing Devices	Proper Mask	Rags, Cloths, Towels, and Other Proper Wiping Devices	
Spill Containment Vessels and Other Proper Devices For Collecting Material Spills and Overruns					

16 Fluid Ounce (473 mL) Aerosol →



← 1 Gallon (3.8 Liter) Cans



Noxit® 86 NSN: 8030-01-524-0114; **Sur-Prep® 5677 NSN:** 6850-01-684-6911 (16 fl oz (473 mL) Aerosol)

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)

Sur-Prep® 123 NSN's: 6850-01-671-8497 (Aerosol), 6830-01-678-3176 (10 lb (4536 gram) Bulk Cylinder)

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

D-5600NS NSN: 6850-01-628-2147 (16 fl oz (473 mL) Aerosol)

For application questions regarding **Noxit® 86**, contact **Zip-Chem® Aviation Products** at **(1) 408 782 2335** or **zipchem@addevmaterials.com**.

ZIP® CHEM Part of & ADDEV MATERIALS