

Safety Steps and Procedures To Follow Prior To Applying X-410Q:

Always refer to the safety data sheet (SDS), technical data sheet (TDS), and label prior to applying **X-410Q** if you have any questions about the product.

Always wear gloves, protective eyewear, and protective clothing to prevent **X-410Q** from contacting the skin and eyes.

X-410Q Product Information and Benefits:

X-410Q is a water-based cleaner that is approved to the **US EPA Safer Choice*** program and is non-flammable, comes in ready-to-use packaging, and contains a select group of surfactants that are designed to solubilize and lift a wide variety of contaminants without the use of abrasives or harsh solvents.

X-410Q solubilizes and lifts a wide variety of contaminants without the use of abrasives or harsh solvents and is very effective in interior cleaning applications.

X-410Q is safe on aluminum, magnesium, all structural metals, all quality paints, all primers, and all acrylic plastics.

EPA certification does not constitute endorsement of this product. The **Safer Choice** label or **Design for the Environment** logo signifies that the **product's** formula, as **Zip-Chem®** has represented it to the **EPA**, contains ingredients that meet stringent **EPA** criteria for effects on human health and the environment. **EPA** relies solely on **Zip-Chem®**, its integrity and good faith, for information on the **product's** composition, ingredients, and attributes. **EPA** has not independently identified, that is, via chemical analysis, the ingredients in the **product formula**, nor evaluated any of **Zip-Chem®**'s non-ingredient claims. **EPA** provides its evaluation only as to the **product's** human health and environmental characteristics, as specified in the **Safer Choice** and **Design for the Environment Standard** and based on currently available information and scientific understanding.

Areas Where X-410Q Can Be Applied:

Apply **X-410Q** on aluminum, magnesium, structural metal, quality paints, primers, and acrylic plastics.

Procedure For Dilluting The Concentrate Version of X-410Q:

General Duty: Dilute **one part X-410Q** to **twenty parts** water

Medium Duty: Dilute **one part X-410Q** to **ten parts** water

Heavy Duty: Dilute **one part X-410Q** to **five parts** water

Methods For Applying X-410Q Benefits:

X-410Q can be applied via spray and bulk application equipment below and on the next 4 pages.

1.) HVLP Spray Gun Setup

A.) Set the air pressure. This is very important because if there is too much pressure, then the texture and spray of **X-410Q** will be dry. Too little pressure however, results in a poor atomization and orange peeling of **X-410Q**.

B.) If you see texture in the spray of **X-410Q**, then increase the air pressure of your **HVLP gun**. If you see an overspray cloud of **X-410Q**, then decrease the air pressure slightly. The proper spray pattern for **X-410Q** should be a **slightly wet pass** with **no flooding or sagging** because thinly applied products like **X-410Q** can run very fast.

C.) One pattern that should be used when using the **HVLP gun** to apply **X-410Q** is the **fan pattern** because it uses a **full wide fan spray** which provides better consistency and leveling when applying **X-410Q** 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.

HVLP Spray Gun



Methods For Applying X-410Q (Continued From Page 1):

HVLP Spray Gun Setup (Continued From Page 1)

- C.) One pattern that should be used when using the **HVLP gun** to apply **X-410Q** is the **fan pattern** because it uses a **full wide fan spray** which provides better consistency and leveling when applying **X-410Q** 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

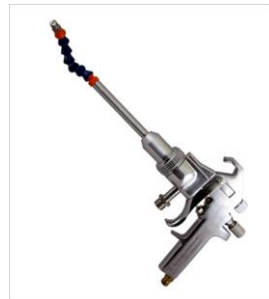
- A.) Determine the tip size for the gun. This is very important especially for a thin material, such as **X-410Q**.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **X-410Q** because the applied material will exhibit the following characteristics below.

- *Too much **X-410Q** being applied
- ***X-410Q** runs
- *Orange peel in the **X-410Q**
- *An overspray cloud in the applied **X-410Q**

- B.) For pressure settings, use the lowest pressure possible so that **X-410Q** 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 gun** 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 **X-410Q** 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 **X-410Q**, then the pressure of the **air assisted spray gun** is too high. None of these observations should occur because thin materials like **X-410Q** atomize very easily.
- D.) Set the pump ratio of the equipment to a range of **60:1 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 **X-410Q** at a distance closer than **12"**, then there will be a heavy buildup of **X-410Q**, tiger stripping of material from the surface where the **X-410Q** was applied and a variation in the gloss of the **X-410Q**.
- G.) Consider the passing speed of **X-410Q** because the output of **X-410Q** 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 **X-410Q** should be spray applied as a **smooth continual pass** with a **50% overlap**.

Airverter Spray Gun



Methods For Applying X-410Q(Continued From Page 2):

Air Assisted Spray Gun Setup (Continued From Page 2)

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 X-410Q	More aggressive fan spray of X-410Q
Slow X-410Q output	Fast output of X-410Q
Very forgiving when applying X-410Q	X-410Q can run quickly
Less overspray bounce of X-410Q	More fogging potential for X-410Q than with HVLP spray method

3.) Airless Spray Setup

A.) Determine the tip size for the gun. This is very important especially for a thin material, such as X-410Q.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying X-410Q because the applied material will exhibit the following characteristics below.

- *Too much X-410Q being applied
- *X-410Q runs
- *Orange peel in the X-410Q
- *An overspray cloud in the applied X-410Q

Airless Spray Equipment



B.) For pressure settings, use the lowest pressure possible so that X-410Q 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 X-410Q 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 X-410Q, then the pressure of the airless spray gun is too high. None of these observations should occur because thin materials like X-410Q atomize very easily.

D.) Set the pump ratio of the equipment to a range of **60:1 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 X-410Q at a distance closer than **12"**, then there will be a heavy buildup of X-410Q, tiger stripping of material from the surface where the X-410Q was applied, and a variation in the gloss of the X-410Q.

G.) Consider the passing speed of X-410Q because the output of X-410Q 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 X-410Q should be spray applied as a **smooth continual pass** with a **50% overlap**.



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Methods For Applying X-410Q(Continued From Page 3):

Airless Spray Setup (Continued From Page 3)

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

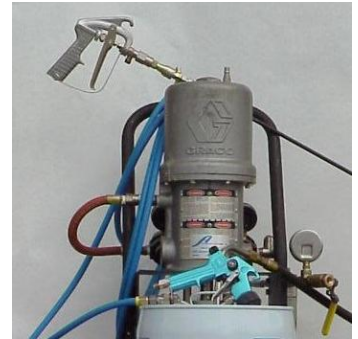
HVLP	Airless Spray Gun
Soft spray of X-410Q	More aggressive fan spray of X-410Q
Slow X-410Q output	Fast output of X-410Q
Very forgiving when applying X-410Q	X-410Q can run quickly
Less overspray bounce of X-410Q	More fogging potential for X-410Q than with HVLP spray method

4.) X-410Q 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 **X-410Q** including thin coatings, such as clears and sealers.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **X-410Q** because the applied material will exhibit the following characteristics below.

- *Too much **X-410Q** being applied
- ***X-410Q** runs
- *Orange peel in the **X-410Q**
- *An overspray cloud in the applied **X-410Q**



B.) For pressure settings, use the lowest pressure possible so that **X-410Q** 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 Sprayer** 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 **X-410Q** 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 **X-410Q**, then the pressure of the gun is too high. None of these observations should occur because thin materials like **X-410Q** 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 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 **X-410Q** at a distance closer than **12"**, then there will be a heavy buildup of **X-410Q**, tiger stripping of material from the surface where the **X-410Q** was applied, and a variation in the gloss of the **Calla® 301A**.

G.) Consider the passing speed of **X-410Q** because the output of **X-410Q** 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 **X-410Q** should be spray applied as a **smooth continual pass** with a **50% overlap**.



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Methods For Applying X-410Q(Continued From Page 4):

X-410Q 5 Gallon (18.9 Liter) Cart Sprayer Setup (Continued From Page 4)

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

HVLP	X-410Q 5 Gallon (18.9 Liter) Cart Sprayer
Soft spray of X-410Q	More aggressive fan spray of X-410Q
Slow X-410Q output	Fast output of X-410Q
Very forgiving when applying X-410Q	X-410Q can run quickly
Less overspray bounce of X-410Q	More fogging potential for X-410Q than with HVLP spray method

5.) Electro-Static Spray Gun Setup

- A.) Minimize the flow of **X-410Q** for the required coating speed and film thickness.
- B.) Minimizing the target distance of spraying **X-410Q**.
- C.) Ensure that the **X-410Q** 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 **X-410Q**.
- E.) Gradually increase in-line air pressure so that the spray provides proper **X-410Q** 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 **X-410Q**.

Electro-Static Spray Gun



It is important to ensure that the **HVLP**, **air assisted**, **airless**, **5 Gallon (18.9 Liter) Cart Sprayer**, or **electrostatic paint gun** for applying **X-410Q** are properly setup for the following reasons below.

- *Decrease odor, fogging, and mist from the application of **X-410Q**
- *Increase the transfer efficiency of the **X-410Q** from the equipment to the area it needs to be applied to
- *Ensure that **X-410Q** will be applied according to how it was designed to be applied with respect to **optimum weight to performance balance**



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MATERIALS

X-410Q Product Pictures and Zip-Chem® Product Packaging Part Numbers:

X-410Q Ready For Use Pump Spray Bottles

*Case of 12 of 12 fl oz (355 mL) Bottles-**010531**

*Case of 12 of 24 fl oz (710 mL) Bottles-**010533**

X-410Q Concentrate

*Case of 4 each Gallon (4 each of 3.8 Liter) Bottles-**011872**

*5 Gallon (18.9 Liter) Pail-**011871**

*55 Gallon (208 Liter) Drums-**011870**

*330 Gallon (1249 Liter) Tote-**001947**

Protective Eyewear

Protective Clothing

Gloves



epa.gov/saferchoice

← 24 fl oz (710 mL) Spray Bottle

For application questions regarding X-410Q, contact Zip-Chem® Aviation Products at (1) 408 782 2335 or zipchem@addevmaterials.com.



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