

Safety Steps and Procedures To Follow Prior To Applying Cor-Ban® 27L:

Always refer to the **safety data sheet (SDS)** and **technical data sheet (TDS)** prior to applying **Cor-Ban® 27L** if you have any questions about this product.

Always wear gloves, protective clothing, and protective eyewear to prevent **Cor-Ban® 27L** from making contact with the skin and eyes.

Cure sealants to recommendations set by the manufacturer prior to applying **Cor-Ban® 27L**.

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

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 **Cor-Ban® 27L** 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.

Cor-Ban® 27L Features and Benefits:

Cor-Ban® 27L is an amber/tan non-drying corrosion inhibiting compound (CIC) for a wide range of temperatures with a thixotropic and buff colored film.

Cor-Ban® 27L exhibits an extremely smooth and uniform paste like consistency without any lumps or grit and has a smooth, non-drying, and even film with excellent corrosion resistance.

Cor-Ban® 27L is non-toxic, user safe, generates a low odor, withstands high ultraviolet exposure in highly corrosive environments, and passes the **lightning strike test**.

Cor-Ban® 27L is approved as a replacement for chromate containing non-curing pastes and is free of **chromate, asbestos, MoS₂, graphite, and heavy metals**.

Cor-Ban® 27L is used in the formulation of **Cor-Ban® 22** and a liquid application of it is available as **Cor-Ban® 22**.



6.) **Cor-Ban® 27L** is available in a Semco® cartridge that fits into a standard pneumatic or ratchet sealant gun that is common in the industry as well as a collapsible tube for manual application and grease cartridges for use with a grease gun.

Areas To Mask Prior To Applying Cor-Ban[®] 27L:

1.) Mask areas that will not be coated with Cor-Ban[®] 27L, 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
- * Oxygen System Components (i.e. bottles, pressure metering and indicating equipment and connections, ect)



Methods For Applying Cor-Ban[®] 27L:

Cor-Ban[®] 27L can be applied using:

- * HVLP Guns
- * Airless Spray Equipment
- * Spray Equipment
- * Bulk Application Equipment
- * Spatula or brush at a reasonable **ambient temperature**.

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 Cor-Ban[®] 27L will be dry. Too little pressure however, results in a poor atomization and orange peeling of Cor-Ban[®] 27L.
- B.) If you see texture in the spray of Cor-Ban[®] 27L, then increase the air pressure of your HVLP gun. If you see an overspray cloud of Cor-Ban[®] 27L, then decrease the air pressure slightly. The proper spray pattern for Cor-Ban[®] 27L is important because thickly applied products like Cor-Ban[®] 27L can run very slowly.
- C.) One pattern that should be used when using the HVLP gun to apply Cor-Ban[®] 27L is the **fan pattern** because it uses a **full wide fan spray** which provides better consistency and leveling when applying Cor-Ban[®] 27L 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.
- I.) Continue to fine tune the settings until the desired spray pattern is achieved.

HVLP Spray Gun



Methods For Applying Cor-Ban® 27L (Continued From Page 2):

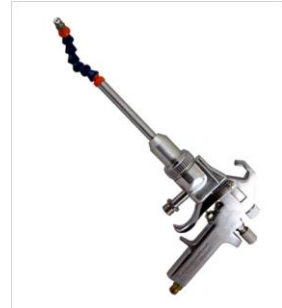
2.) Air Assisted Spray Gun Setup

A.) Determine the tip size for the gun. This is very important especially for a thick material, such as Cor-Ban® 27L.

Note: Do not increase the gun tip size especially to **.015 “ or more** when applying Cor-Ban® 27L because the applied material will exhibit the following characteristics below.

- *Too much Cor-Ban® 27L being applied
- *Cor-Ban® 27L runs
- *Orange peel in the Cor-Ban® 27L
- *An overspray cloud in the applied Cor-Ban® 27L

Airverter Spray Gun



B.) For pressure settings, use the lowest pressure possible so that Cor-Ban® 27L 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 Cor-Ban® 27L 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 Cor-Ban® 27L, then the pressure of the **air assisted spray gun** is too high. None of these observations should occur because thick materials like Cor-Ban® 27L can change texture 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 Cor-Ban® 27L at a distance closer than **12”**, then there will be a heavy buildup of Cor-Ban® 27L, tiger stripping of material from the surface where the Cor-Ban® 27L was applied, and a variation in the gloss of the Cor-Ban® 27L.

G.) Consider the passing speed of Cor-Ban® 27L because the output of Cor-Ban® 27L 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 Cor-Ban® 27L 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 Cor-Ban® 27L	More aggressive fan spray of Cor-Ban® 27L
Slow Cor-Ban® 27L output	Fast output of Cor-Ban® 27L
Very forgiving when applying Cor-Ban® 27L	Cor-Ban® 27L can run quickly
Less overspray bounce of Cor-Ban® 27L	More fogging potential for Cor-Ban® 27L than with HVLP spray method



Part of



Methods For Applying Cor-Ban® 27L (Continued From Page 3):

3.) Airless Spray Setup

A.) Determine the tip size for the gun. This is very important especially for a thick material, such as **Cor-Ban® 27L**.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **Cor-Ban® 27L** because the applied material will exhibit the following characteristics below.

- *Too much **Cor-Ban® 27L** being applied
- ***Cor-Ban® 27L** runs
- *Orange peel in the **Cor-Ban® 27L**
- *An overspray cloud in the applied **Cor-Ban® 27L**

Airless Spray Equipment



B.) For pressure settings, use the lowest pressure possible so that **Cor-Ban® 27L** 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 **Cor-Ban® 27L** 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 **Cor-Ban® 27L**, then the pressure of the airless spray gun is too high. None of these observations should occur because thick materials like **Cor-Ban® 27L** can change texture 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 **Cor-Ban® 27L** at a distance closer than **12"**, then there will be a heavy buildup of **Cor-Ban® 27L**, tiger stripping of material from the surface where the **Cor-Ban® 27L** was applied, and a variation in the gloss of the **Cor-Ban® 27L**.

G.) Consider the passing speed of **Cor-Ban® 27L** because the output of **Cor-Ban® 27L** 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 **Cor-Ban® 27L** 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 Cor-Ban® 27L	More aggressive fan spray of Cor-Ban® 27L
Slow Cor-Ban® 27L output	Fast output of Cor-Ban® 27L
Very forgiving when applying Cor-Ban® 27L	Cor-Ban® 27L can run quickly
Less overspray bounce of Cor-Ban® 27L	More fogging potential for Cor-Ban® 27L than with HVLP spray method



Part of



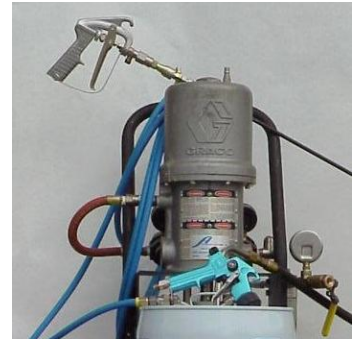
Methods For Applying Cor-Ban® 27L (Continued From Page 4):

4.) Cor-Ban® 27L 5 Gallon (18.9 Liter) Cart Sprayer Setup

A.) Determine the tip size for the gun. This is very important especially for a thick material such as **Cor-Ban® 27L**.

Note: Do not increase the gun tip size especially to **.015 " or more** when applying **Cor-Ban® 27L** because the applied material will exhibit the following characteristics below.

- *Too much **Cor-Ban® 27L** being applied
- ***Cor-Ban® 27L** runs
- *Orange peel in the **Cor-Ban® 27L**
- *An overspray cloud in the applied **Cor-Ban® 27L**



- B.) For pressure settings, use the lowest pressure possible so that **Cor-Ban® 27L** can be spray applied as a **clean fan** with the width of the spray being shaped like a **fan**. The setup of **9 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 **Cor-Ban® 27L** 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 **Cor-Ban® 27L**, then the pressure of the gun is too high. None of these observations should occur because thick materials like **Cor-Ban® 27L** can change texture 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 **Cor-Ban® 27L** at a distance closer than **12"**, then there will be a heavy buildup of **Cor-Ban® 27L**, tiger stripping of material from the surface where the **Cor-Ban® 27L** was applied, and a variation in the gloss of the **Cor-Ban® 27L**.
- G.) Consider the passing speed of **Cor-Ban® 27L** because the output of **Cor-Ban® 27L** 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 **Cor-Ban® 27L** 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 methods.

HVLP	Cor-Ban® 27L 5 Gallon (18.9 Liter) Cart Sprayer
Soft spray of Cor-Ban® 27L	More aggressive fan spray of Cor-Ban® 27L
Slow Cor-Ban® 27L output	Fast output of Cor-Ban® 27L
Very forgiving when applying Cor-Ban® 27L	Cor-Ban® 27L can run quickly
Less overspray bounce of Cor-Ban® 27L	More fogging potential for Cor-Ban® 27L than with HVLP spray method

Methods For Applying Cor-Ban® 27L (Continued From Page 5):

5.) Electro-Static Spray Gun Setup

- A.) Minimize the flow of **Cor-Ban® 27L** for the required coating speed and film thickness.
- B.) Minimizing the target distance of spraying **Cor-Ban® 27L**.
- C.) Ensure that the **Cor-Ban® 27L** 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 **Cor-Ban® 27L**.
- E.) Gradually increase in-line air pressure so that the spray provides proper **Cor-Ban® 27L** 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 **Cor-Ban® 27L**.

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 **Cor-Ban® 27L** are properly setup for the following reasons below.

- *Decrease odor, fogging, and mist from the application of **Cor-Ban® 27L**
- *Increase the transfer efficiency of the **Cor-Ban® 27L** from the equipment to the area it needs to be applied to
- *Ensure that **Cor-Ban® 27L** will be applied according to how it was designed to be applied with respect to **optimum weight to performance balance**

Preheat **Cor-Ban® 27L** to **100°F - 120°F (38°C -49°C)** to speed its application to parts.

Cor-Ban® 27L can be applied at **room temperature** or any **elevated temperature** based on the desired type of coverage from it.

For **in-service applications**, please contact the appropriate **manufacturer's service engineering** for details.

Areas Where Cor-Ban® 27L Should Be Applied:

1.) Cor-Ban® 27L can be applied on:

- * Panel Fasteners
- * Antennas and External Antenna Mounts
- * Many Substrates (All Metal Surfaces, Dissimilar Metals, ect)
- * Landing Gear
- * Fuel Access Panels
- * Lavatory
- * Galley Areas
- * Applications Involving Static Joints
- * Intricate Parts
- * Alignment and Shear Pins
- * Threaded Fasteners
- * Miscellaneous Hardware



← Metal Surface

← Landing Gear



← Fasteners



← Lavatory



Part of



ADDEV
MATERIALS

Methods For Applying Cor-Ban® 27L To Test Panels:

1.) Apply the **Cor-Ban® 27L** paste into each hole and attach the surface hole to ensure that the cavity is filled to the top of the hole.

2.) Install the simulated access panel

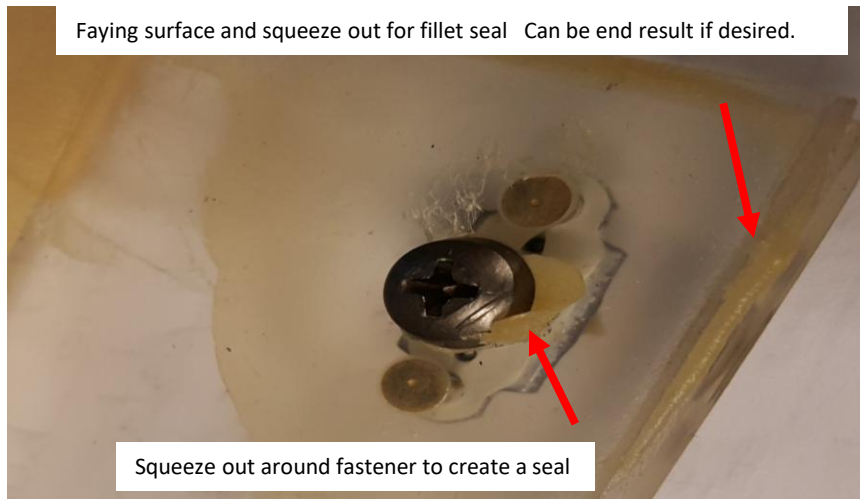


3.) Apply **Cor-Ban® 27L** to the panel fastener to allow for and to squeeze out during installation.

Note: After fasteners are installed, wipe off the panels and squeeze out **Cor-Ban® 27L**.

Results of suggested process around hardware:

Faying surface and squeeze out for fillet seal Can be end result if desired.



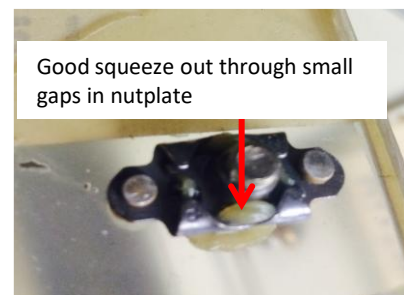
3.1.) **Cor-Ban® 27L** squeeze out around the fastener's circumference is achieved.

3.2.) **Cor-Ban® 27L** is pressed into gaps and prevents exterior moisture intrusion or condensation from entering the assembled joint.

3.3.) **Cor-Ban® 27L** is forced through the fastener hole, encapsulating hole in the simulated access panel and substructure hole completely.

3.4.) **Cor-Ban® 27L** is forced into and around anchor nut as seen with the **Cor-Ban® 27L** protrusion on backside of anchor nut.

3.5.) The compression between surfaces allows for complete air-tight seal spreading outward from area requiring protection.



Benefits Of Applying Cor-Ban® 27L To Test Panels:

A simple process where no additional corrosion protection compound (CPC) application is required.

The fastener can easily be removed when **Cor-Ban® 27L** is applied to it.

Cor-Ban® 27L provides protection that reduces **labor hours** at all levels of **aircraft maintenance**.

The number of materials that are used for corrosion removal processes on structures are reduced when **Cor-Ban® 27L** is applied to them. That way, the life limits for those substrates can be increased.

Working Temperature For Cor-Ban® 27L:

The typical working temperature range for Cor-Ban® 27L is: **-65°F to 180°F (-54 to 82°C)** but has been applied in temperatures up to **280°F (138°C)** for gearbox applications.

Cor-Ban® 27L can withstand brief exposure to temperatures up to **500°F (260°C)** with little impact on its corrosion protective properties

Methods For Removing Cor-Ban® 27L:

Cor-Ban® 27L can be removed by wiping off that excess material and flushing the part or wiping that part with a rag that is soaked with an aliphatic naphtha based wipe solvents or its equivalents. Cor-Ban® 27L can also be removed with a rag soaked with corrosion preventive compound/corrosion inhibiting compound removers, such as:

- * Sur-Prep® 3160
- * Sur-Prep® 3167
- * D-5640NS/ZC-640
- * Zip-Strip™ 125M
- * Mineral Spirits



Note: MEK and other ketones will not remove Cor-Ban® 27L.

Cor-Ban® 27L Product Pictures, Zip-Chem® Product Packaging Part Numbers, and Other Materials To Purchase:

Cor-Ban® 27L

- *5 Fluid Ounce (148 mL) Tubes-**009402**
- *Case of 12 of 9.8 fl oz (172 mL) packaged within a standard 6 oz (170 gram) Semco cartridge-**009403**
- *14 fl oz (414 mL) Grease Cartridges-**009873**
- *Pint (473 mL) Cans-**009404**
- *Quart (946 mL) Units-**009405**
- *5 Gallon (18.9 Liter) Pail-**002099**
- *Specialized packaging forms available upon request

Zip-Strip™ 125M

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**102614**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**102608**
- *5 Gallon (18.9 Liter) Pails-**102609**
- *55 Gallon (208 Liter) Drum-**102610**
- *Specialized forms of packaging available upon request

Cor-Ban® 22

- *Case of 24 of 4 fl oz (118 mL) Aerosols (103734)
- *Case of 12 of 16 fl oz (473 mL) Aerosols (007047)
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans (009400)
- *5 Gallon (18.9 Liter) Pail (007049)
- *55 Gallon (208 Liter) Drum (007050)
- *Specialized packaging forms 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 3.8 Liter) Cans-**103762**
- *5 Gallon (18.9 Liter) Pails-**103763**
- *55 Gallon (208 Liter) Drum-**103764**
- *Specialized forms of packaging available upon request



Part of



Cor-Ban® 27L Instruction Manual

Cor-Ban® 27L Product Pictures, Zip-Chem® Product Packaging Part Numbers, and Other Materials To Purchase (Continued From Page 8):

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 3.8 Liter) Cans (**ZC-640-009430**)
- *5 Gallon (18.9 Liter) Pails (**ZC-640-002155**)
- *55 Gallon (208 Liter) Drum (**ZC-640-008181**)
- *Special 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 3.8 Liter) Cans-**008578**
- *5 Gallon (18.9 Liter) Pails-**008579**
- *55 Gallon (208 Liter) Drum-**008580**
- *Case of 6 Canisters of Towelettes-**100026**
- *Case of 90 Individual Towelettes-**011844**
- *Specialized forms of packaging upon request

Masking Tape | Tin Foil | Gloves | Protective Eyewear

Standard Pneumatic Gun | Anchor Nuts | Protective Clothing

Naphtha Based Wipe Solvents Or The Equivalents | Vacuum

Lighting and Inspecting Equipment | Bulk Application Equipment

Ratchet Sealant Gun | Wiping Devices | Panels | Fasteners

Mineral Spirits | Curing Materials and Devices | Spray Equipment



← NSN: 6850-01-531-7357 (5 fl oz. (148 mL) Tube)



← *1 Gallon (3.8 Liter) Cans

Other Cor-Ban® 27L NSN's: 6850-01-531-7355 (6 fl oz. (177 mL) (Semco® Cartridge), 6850-01-469-7645 (Quart (946 mL))

Cor-Ban® 22 NSN: 6850-01-523-4290 (16 fl oz (473 mL) Aerosol), NSN 6850-01-531-7352 (5 Gallon (18.9 Liter) Pail)

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)

Zip-Strip™ 125M NSN's: 6850-01-695-8514 (5 Gallon (18.9 Liter) Pail), 6850-01-707-8887 (16 fl. oz (473 mL) Aerosol)

For application questions regarding **Cor-Ban® 27L**, contact **Zip-Chem® Aviation Products** at **(1) 408 782 2335** or zipchem@addevmaterials.com.



Part of

