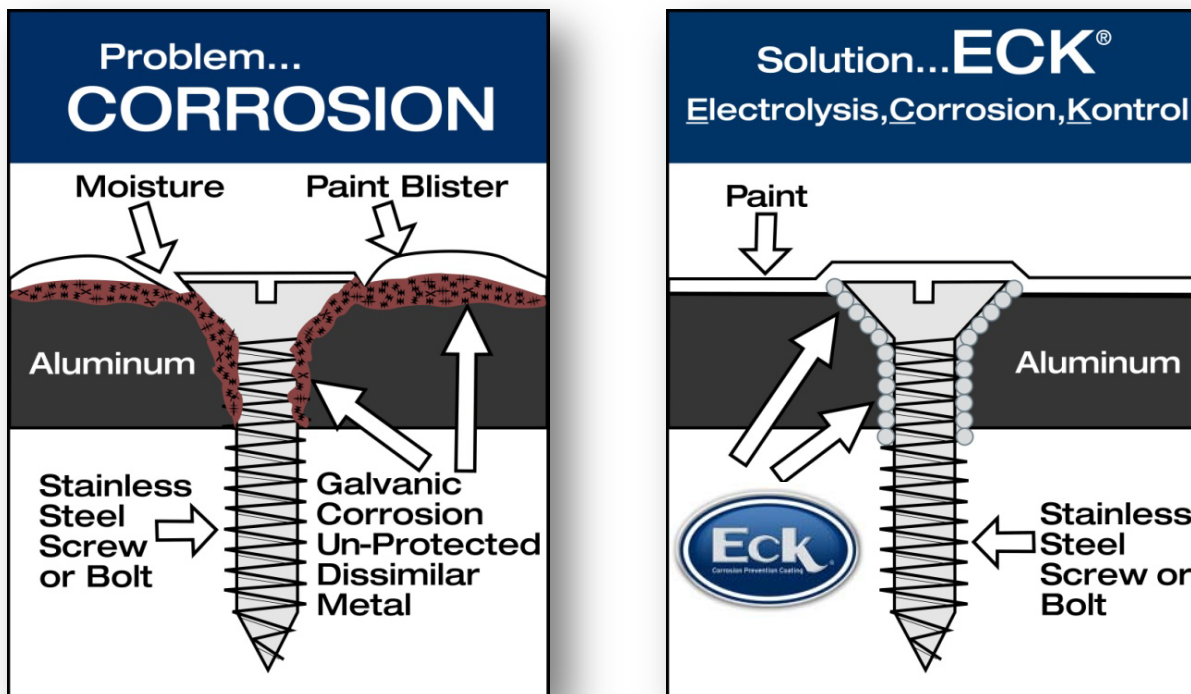


Eck® Corrosion Prevention Coating

Detailed application procedures for Emergency Vehicles



Eck® is the only patented product proven to prevent dissimilar metal corrosion. Some of the world's largest manufacturers use Eck® in their production process to prevent corrosion between aluminum & steel. Eck® is formulated to out-perform all other industry standards, Double Faced Tape, Coated Hardware & Washer/Spacers. Eck® corrosion coating protects dissimilar metals such as Aluminum and Stainless Steel against electrolytic reactions. To protect your investments simply: brush, dip, roll, spray or squeeze Eck® in-between your dissimilar metals during assembly.

Eck® Tips:

- Shake all products thoroughly. Eck® has Zinc Powder & Zinc Dust that tends to settle. A good shake/stir will help insure that you are getting the most out of the Eck® corrosion protection.
- Apply Eck®: into **all** drilled holes, onto **all** fasteners (bolts & screws) & in-between **all** flat surfaces. Behind – door handles, hinges, lamp housings, diamond plates, latches, brackets, wheel opening moldings (any moldings), body mounts, door trim, running boards & etc...
- Apply product so that it **"oozes out"** (the clean up needed is well worth the warranty dollar savings)



Eck® - Corrosion Patent: United States no. 5,744,197 & Canadian no. 2,213,065

Application Recommendations

Door & Grab Handles: Apply Eck® (Spray or Brush) to completely cover the area that the handle is to be mounted. Assemble handle by pressing it up against the Eck® so that the product will ooze out from the sides. This will ensure that a seal has been created behind the handle. Proper Eck® application is: Body> Eck®>Handle. Eck® also should be applied onto the fastener threads and into each drilled hole. If this area requires a gasket (not recommend by Van Nay, LLC.), we recommend to use Eck® in hole first, then insert plastic/nylon gasket, then applied again on top of the plastic/nylon gasket and on fastener threads. Proper Eck® application is: Body>Eck®>Insert>Eck®>Handle.

Piano Hinges: Eck® is required to be applied to both the body of vehicle and the compartment door-side where the hinge will be assembled. Apply Eck® (Spray or brush) onto the body, covering the entire area that the hinge will be placed. Spend some extra time applying product at each drilled hole. After Eck® is applied, assemble hinge by pressing hinge onto body and door-side, allowing the product to ooze out from behind hinge. This will ensure that a proper seal has been created. We do not recommend any kind of double-faced or Mylar tape. Tape will allow moisture to get in behind the hinge, causing corrosion. Eck® alone will allow the hinge to lay "flat" creating a seal between the two metals. Proper Eck® application is: Body>Eck®>Hinge. Eck® applied onto the fastener threads and into each drilled hole.

Compartment Door Latches: Apply Eck® onto the fasteners threads. Spray or Dip each bolt/screw before installation, assemble latch (Eck® already applied) and wipe excess Eck® clean before paint. If possible, apply Eck® to the flat surface of the dissimilar metals to keep separate.

Wheel Opening Moldings: Apply Eck® (Spray or brush) directly onto the body of truck. Apply Eck® to the entire body of the wheel opening area, with extra time at each drilled hole. Assemble body molding by pressing up against the body allowing the excess Eck® to ooze out from underneath the molding. This will ensure a seal has been created. Wipe excess Eck® off after the molding is installed. Proper Eck® application is: Body>Eck®>Wheel opening Molding. Eck® applied onto the fastener threads and into each drilled hole.

Light Housing: Any drilled hole and hardware being used needs to be protected with Eck®. Apply Eck® (Spray or Brush) onto the body of vehicle. Application to the body should cover the entire area around the lamp housing in order to seal out moisture. Lamp housing should be pressed against the Eck® to allow excess product to ooze out. Also, spray the wire connectors when assembling; Eck® is die-electric and great for protecting electrical connections. Proper Eck® application is: Body>Eck®>Lamp. Eck® applied onto each fastener thread and into each drilled hole.

Diamond Plate: Apply Eck® (Spray or Brush) to the body of vehicle. Apply approximately 3 or 4 inches around the edges of where this plate will be installed. Press plate up against body so that Eck® will ooze out of the sides. Proper Eck® application is: Body>Eck®>Trim Plate. Eck® applied onto fastener threads and into each drilled hole.

Running Board: Apply Eck® (Spray or Brush) onto the body where the flat surface of the running board will be mounted to the vehicle. Spend extra time at each drilled hole to ensure coverage in this area. Proper Eck® application is: Body>Eck®>Running Board. Eck® should be applied onto each fasteners thread and into each drilled hole.

Chassis Body Mount: Apply Eck® to each mount that the aluminum body will be mounted. Proper Eck® application is: Frame>Eck®>Body Mount>Eck®>Body. Eck® applied onto each fastener thread and into each drilled hole. Eck® Quarts are used in many apparatus chassis divisions to protect the Body & Frame. Brushing a thick coating Eck® on in these areas will be most effective.

License Plate Mount: Apply Eck® (Spray or Brush) approximately 2-3 inches around the license plate cut-out where the housing is pressed up against the vehicle. Eck® should ooze out from the sides, creating a sealed barrier to prevent moisture from getting behind this surface. If a gasket is necessary, Van Nay recommends using a hard plastic or rubber. Foam and felt absorb moisture and are not recommend for this application. Proper Eck® application is: Body>Eck®>Rubber Gasket>Eck®>License Mount. Eck® applied onto each fastener thread and into each drilled hole.

Door Catch/Striker: Apply Eck® (Spray or Brush) to the body covering the entire surface of the area being mounted. Proper Eck® application is: Body>Eck®>Rubber Grommet>Eck®>Door Catch/Striker. Eck® applied onto each fastener and into each drilled hole.

Windshields & Side Glass: Apply Eck® (Spray or Brush) approximately 2-3 inches around the windshield or side glass cut-out where the glass molding will be mounted. This will prevent moisture from getting up under this glass molding, which breaks down paint and causes corrosion. Proper Eck® application is: Body>Eck®>Windshield or Glass Molding.

Mirror Housing: Apply Eck® (Spray or Brush) to the entire area that the mirror housing will be assembled to the body of the vehicle. This will prevent moisture from getting behind the housing. Mount the mirror housing so that Eck® oozes out from the sides. Proper Eck® application is: Body>Eck®>Mirror Housing. Eck® applied onto each fastener thread and into each drilled hole.

Grille: Apply Eck® (Spray or Brush) at each area that the grille is mounted (any flat surface that the grille & body meet). Again double faced tape & Mylar are not recommended with this application. Tape will allow moisture and other road chemicals to get in-between your items causing corrosion. Proper Eck® application is: Body>Eck®>Grille. Eck® applied onto fastener threads and into each drilled hole.

Pump Panel Housing: Apply Eck® (Spray or Brush) to the backside edge of the pump panel. Any flat surface that meets the body and each drilled hole that will be used to mount the panel should be applied with Eck®. Proper Eck® application is: Body>Eck®>Pump Panel. Eck® applied to each fastener thread and into each drilled hole.

Interior cabinets and trim: Apply Eck® (Spray or Brush) onto each fastener thread and into each drilled hole. If self-tapping screws are used to hold trim or other interior objects onto the body, apply a small amount of Eck® onto the area to be fastened. When the fastener sinks into the body, Eck® will be driven down into the new hole separating the two metals. Eck® should be applied onto the threads of the self-tapping fastener before application.

Eck® Questions & Application Concerns:

Dielectric: Eck® is a dielectric product and is a great solution to preventing electrical shorts and galling. Eck® will seal out moisture with these connections, preventing one of the most common areas of warranty costs. Eck® will allow current to pass through it. If you are currently buying any dielectric grease, then we suggest stopping the use of those products and use Eck® as a replacement.

Foam/Rubber/Plastic & Eck®: The United States Navy has done some testing on Eck® with rubber/plastic in the recent years. We do not have a copy of this test, but we were told that Eck® & the different rubber/plastic tests showed no signs of reaction to one another. Our recommendation in this area and any other area that you use either a rubber or plastic grommet or gasket, would be to try using Eck® from the liquid Quarts. The Eck® Quarts have the same contents but without the solvents that create the aerosol from the spray cans. We feel this will avoid any issues with your rubber/plastic.

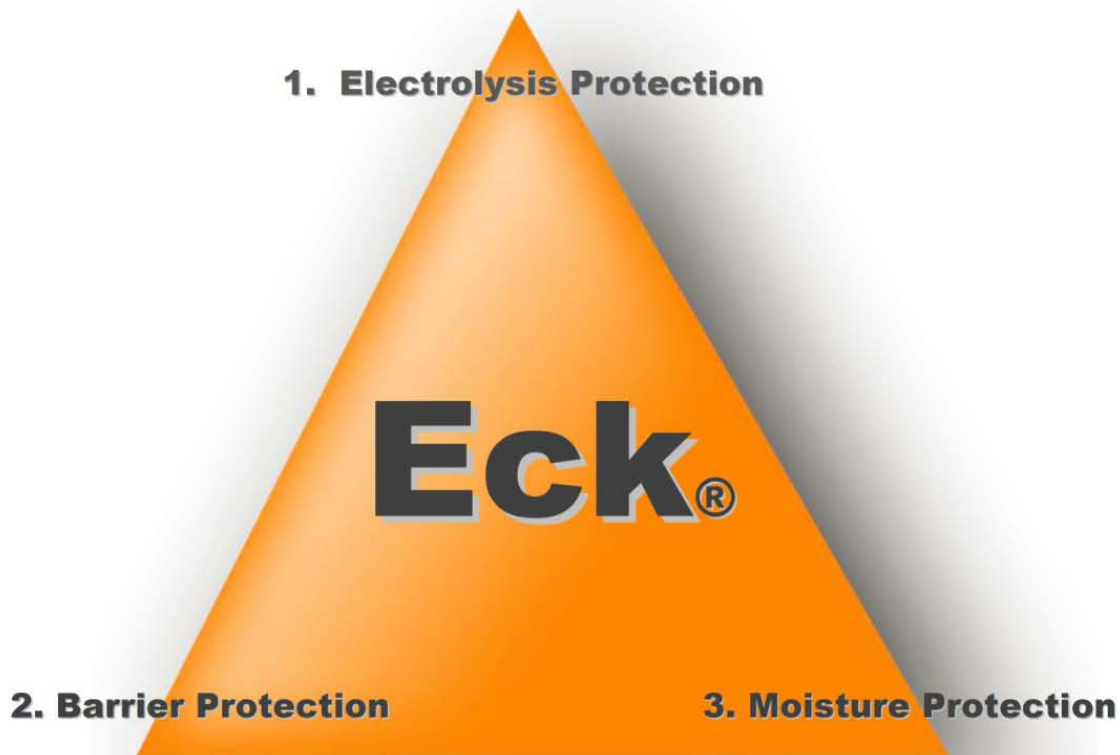
Loctite® & Eck®: Van Nay recommends Eck® to be applied to all fasteners even if there is a form of Loctite® on the fastener. Eck® will not have any negative reaction to this type of fastener. Eck® has been successfully tested with Loctite® fasteners. The two products combined will still hold fasteners in place and prevent corrosion.

Pre-Treated Eck® fasteners: Some of our customers are treating their fasteners with Eck® in quantities to help speed up production. Each manufacturer has their own methods of treating their fasteners with Eck®. We suggest obtaining a strainer to hold a quantity of these fasteners, apply (pour) a Quart of Eck® onto these bolts/screws, mixing/stirring the fasteners in with the Eck® and then shaking the excess product off. There is no shelf life for Eck® and is not a problem to leave a batch of these fasteners to sit out exposed in the open for a period of time. This would make coated Eck® fasteners available to your workers without slowing each station down to apply this product to each fastener one at a time.

How Much Eck® Per Truck: Each manufacturer has its own recommendation for how much Eck® per truck. I would say the bare minimum for each Ambulance would be 1 ½ cans per truck and each Fire Truck between 2-3 cans per truck (depending on its size & type).

Eck® Clean-Up: Eck® is petroleum based and water alone will not remove Eck®. Van Nay recommends any commonly used industrial solvent, such as: alcohol, prep-sol, mineral spirits or surface cleaner currently used in your paint departments. Spray this solvent on the area that needs cleaning and wipe off any excess Eck® with a clean rag. Eck® or any of these commonly used solvents will not hurt painted surfaces.

Eck® Corrosion Coating Triangle



Only the patented Eck® Corrosion Prevention Coating gives all three types of corrosion protection.

Key Features and Benefits of Eck®

- Field tested for over 12 years
- Successfully laboratory tested for 4,000 hours
- Inexpensive patented corrosion solution
- Excellent with high temperatures, up to 1,000 degrees Fahrenheit
- Prevents corrosion: Electrolysis, Galvanic and Magnesium & Cal-Chloride corrosion
- Will not harm paint: safe for painted and unpainted surfaces
- Seals moisture out of unwanted areas (petroleum based) – never dries
- Dielectric: works great with electrical connections
- Provides excellent lubrication - contains **NO** silicone
- Replaces barrier and Mylar tape
- Low MSDS health rating "1" Safe for all manufacturing
- Zinc rich ingredients (sacrificial metal)
- One time application: no reapplication needed during maintenance
- Unlimited shelf life
- Safe to use with both rubber and plastic
- Compatible with thread locking products

Application & Test Video

Eck® - Application Video

This is a video made for paint manufacturer that needed help explaining how Eck® should be applied under hinges and wheel opening moldings. Eck® should be applied directly onto the body of the vehicle with enough product so that Eck® will ooze out during assembly.



[How to apply Eck® \(Video\)](#)

Eck® - Flammability Test Video

This video was made for manufacturing facilities to help show how safe Eck® is for production. The results clearly show that Eck® is safe and suitable for all manufacturing.



[Eck® - Flammability Test Video](#)

