

# 2022 CHEVROLET CORVETTE SERVICE MANUAL

- SEARCH

1. Body Repair
2. Paint and Coatings
3. Introduction
- 4.

## Anti-Corrosion Treatment and Repair

### **Corrosion Preventative Paint (Chassis Coating) and Primer Coatings**

Note:

Always use these products according to their manufacturer's recommendations. Corrosion Resistant paint and primers will only function properly when mixed properly and when applied to a properly prepared metal surface. Always follow paint manufacturers recommendations for application and use of Corrosion Preventative Paint Products.

Corrosion Preventative Primers are also referred to as Direct to Metal or DTM primers. Extensive testing is done for corrosion resistance and adhesion of these products. Most paint manufacturers require a bare metal treatment chemical first be applied before the paint or primer product is applied. These coatings are very important to providing a properly prepared metal surface for the paint or primer to perform properly. The GM Approved Primers are listed in the GM Approved Refinish Materials book. The latest revision of the GM Approved Refinish Materials booklet is located on the GM Genuine Parts website at [www.genuinegmparts.com](http://www.genuinegmparts.com).

Corrosion Preventative Paint Products are recommended for under-carriage areas like frames, drive line and suspension components that often show corrosion and need to be painted in the field. Any place where bare metal is exposed for any reason or where corrosion prevention is desired from a paint like product that will not likely be top coated with color can use this Corrosion Preventative Paint. A Phosphate metal treatment MUST be applied to the cleaned and dried surface that is free of corrosion scale. This Phosphate prep works well on both Aluminum and steel. While sandblasting can be performed for corrosion removal, it is not necessary for these products to work properly. Application of this product must be performed to Manufacturer's recommendations for them to work properly. See product listing below for Corrosion Preventative Paint Products.

| Stock number   | Type                                     | Description                                                                                                                                                 |
|----------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 36500 or 36502 | Kryptonite Solvent Based Chassis Coating | Solvent based rust protective coating for all areas of under vehicle corrosion protection on aluminum and steel.                                            |
| 25418          | Pure Prep Phosphate Metal Treatment      | Phosphate bare metal treatment for metal preparation of clean or oxidized metal surfaces, areas of under vehicle corrosion protection on aluminum and steel |

### **Undercoating and Closed Cavity Coatings**

Warning:

When applying sound deadeners, or anti-corrosion materials due care and preventative measures must be exercised to prevent any material from being sprayed into door and quarter panel mechanisms such as door locks, window run channels, window regulators and seat belt retractors, as well as any moving or rotating mechanical or suspension parts on the underbody, particularly the parking brake cable. After material application, be sure that all body drain holes are open. Improper application may increase chance of corrosion damage or limit the operation of moving parts, resulting in personal injury.

Any procedure that disturbs these special treatments, such as panel replacement or collision damage repair operations, may leave the metal unprotected and result in corrosion. Proper recoating of these surfaces with service-type anti-corrosion material is essential.

After repair and/or replacement parts are installed, all accessible bare metal surfaces must be treated with metal conditioner and re-primed. Refer to the GM Approved Refinish Materials book which identifies the paint systems you may use.

The latest revision of the GM Approved Refinish Materials booklet is located on the GM Genuine Parts website at [www.genuinegmparts.com](http://www.genuinegmparts.com).

After a collision, some vehicle structure areas such as frame rails, cross-members and rocker panel sections may need to be repaired. In most cases, the anti-corrosion materials need to be removed to perform these repairs. These materials are classified into two types: Closed Cavity coatings and Undercoat coatings. The primary difference is the way the products set up or "dry". Both are intended to protect the surface they are applied to from corrosion caused by water, salt water or Magnesium Chloride blended de-icing compounds used to thaw icy winter roads. They also can provide a measure of sound deadening.

The Closed Cavity coatings remain sticky to the touch and will seep into seams initially and over extended periods of time. Closed Cavity coatings

provide the best corrosion protection inside of rocker panel sections, pillar sections, frame rails, cross-members, doors, rear compartment lids and closed areas of hoods - anywhere that is concealed or closed off to exterior surfaces.

The Undercoat coatings are "dry to the touch" and offer the best corrosion protection and sound deadening for floor pans, wheelhouses, inside rear compartment and underhood areas - anywhere the coated surface is exposed.

Below is a listing of Undercoat coatings and Closed Cavity coatings that GM believes to be reliable. While others may exist, we have found these products, or equivalents to them, can be used with satisfactory results. Always use these products according to their manufacturer's recommendations.

The following products are available from AC Delco. Contact them at [www.ACDelco.com](http://www.ACDelco.com).

| Stock number | Type                              | Description                               |
|--------------|-----------------------------------|-------------------------------------------|
| 10-1017      | Rubberized Paintable Undercoating | Rubberized Paintable Undercoating 14.3 oz |

The following products are available from \*Automotive International/Valugard. Contact them at 1-800-543-7156, or at [www.valugard.net](http://www.valugard.net)

| Stock number | Type                               | Description                                                                                                                               |
|--------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| VG-104       | WAX/SOLVENT BASED UNDERCOAT        | Traditional Wax/Solvent based Undercoating available in aerosol or spray gun canister<br>Meets OE specifications for corrosion resistance |
| VG-076M      | HYBRID (SOLV./WATER) UNDERCOAT     | Meets OE specifications for corrosion resistance                                                                                          |
| VG-140       | WATER BASED UNDERCOAT              | Meets OE specifications for corrosion resistance                                                                                          |
| VG-101       | WAX BASED CLOSED CAVITY COATING    | Meets OE specifications for corrosion resistance                                                                                          |
| VG-UCG       | CANISTER UNDERCOATING GUN          | High quality undercoating gun uses canister packaging of undercoating                                                                     |
| VG-CRG       | CANISTER CLOSED CAVITY COATING GUN | High quality closed cavity coating gun uses canister packaging of coating and comes with 30 in inner panel application tube with nozzle   |

The following products are available through your local \*3M distributor. Information about 3M product retailers in your area may be obtained at 1-866-364-3577 or at [www.mmm.com/automotive](http://www.mmm.com/automotive).

| Stock number | Type                                          | Description                                                                                            |
|--------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 08804        | No Cleanup Water-Based Undercoating Black     | Coarse texture SBR rubber and acrylic applied with 3M No-Cleanup Gun 08801                             |
| 08964        | No Cleanup High Coverage Body Schutz Black    | Smooth texture SBR rubber applied with 3M No-Cleanup Gun 08801                                         |
| 08882        | 17 oz aerosol Underseal Undercoating Black    | Rubber based, paintable undercoating                                                                   |
| 08883        | 19.7 oz aerosol Rubberized Undercoating Black | Synthetic polymer based undercoating                                                                   |
| 08801        | No Cleanup Undercoating Gun                   |                                                                                                        |
| 08744        | Paintable Undercoating Water Based            | Water based rubberized undercoating, applied with HGP gun                                              |
| 16587        | Accuspray HGP Spray Gun Kit                   | Designed for use with PPS H/O Pressure Cups and high viscosity coatings                                |
| 16121        | PPS H/O Pressure Cups                         | Pressurized cups to efficiently spray thick, high viscosity coatings                                   |
| 08852        | Cavity Wax Plus                               | Aerosol spray, corrosion protection, reflows into cracks and crevices while remaining soft and pliable |
| 08851        | Cavity Wax Plus Applicator Wand Kit           | Applicator wands ensure 360° coverage in closed cavities                                               |

The following products are available from \*Crest Industries, Inc. at 1-800-822-4100 or [www.crestaauto.com](http://www.crestaauto.com)

| Stock number | Type                                       | Description                                                                                                                                |
|--------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| AH-C         | HONEY COAT/WAX BASED CLOSED CAVITY COATING | 16.5 OZ AEROSOL CAN AMBER COLORED SEEPS INTO CREVICES AND REMAINS PLIABLE<br><br>36 in spray wand with 360 degree nozzle available (WA-HC) |

| Stock number      | Type                                                              | Description                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BZ-BAC<br>BZ-BACB | AMBER COAT/WAX BASED CLOSED CAVITY COATING                        | GALLON “ AMBER COLORED (BZ-BAC) OR BLACK (BZ-BACB) SEEPS INTO CREVICES AND REMAINS PLIABLE<br><br>APPLIED WITH WZ-GRP GUN AND SIPHON HOSE<br><br>Flexible spray wand also available (WA-ND) |
| AC-R              | RUBBER COAT/RUBBER BASED UNDERCOATING, PAINTABLE                  | 17.75 OZ AEROSOL                                                                                                                                                                            |
| AR-C              | SUPER RUBBER COAT/LOW V.O.C. RUBBER BASED UNDERCOATING, PAINTABLE | 17.75 OZ AEROSOL                                                                                                                                                                            |
| BA-C              | AUTO COAT/RUBBER BASED UNDERCOATING, PAINTABLE                    | 28.7 FL OZ CONE-TOP CAN AND GALLON APPLIED WITH GU-C UNDERCOATING GUN                                                                                                                       |
| GU-C              | UNDERCOATING GUN                                                  | ATTACHES TO BA-C CONE-TOP CAN                                                                                                                                                               |
| WZ-GRP            | GUN AND SIPHON HOSE                                               | USED WITH BZ-BAC AND BZ-BACB                                                                                                                                                                |
| WA-ND             | FLEXIBLE SPRAY WAND                                               | USED WITH WZ-GRP                                                                                                                                                                            |

The following products are available from \*Kent Automotive. Contact them at 1-888-YES-KENT (888-937-5368) or at [www.kent-automotive.com](http://www.kent-automotive.com)

| Stock number | Type                                                    | Description                                                         |
|--------------|---------------------------------------------------------|---------------------------------------------------------------------|
| P60305       | Wax Based Inner Panel Rustproof “ CLOSED CAVITY COATING | 24 oz Aerosol (can apply with 36 in wand and 360 degree nozzle kit) |
| KT14912      | Rubber Guard Low VOC Rubber Based Undercoating          | 24 oz Aerosol (can apply with 36 in wand and 360 degree nozzle kit) |
| KT14725      | Aerosol Extension Wand Kit                              | 36 in wand and 360 degree nozzle                                    |
| KT14796      | Rubber Guard Low VOC Rubber Based Undercoating          | QUART “ Applied with undercoating gun                               |
| P30025       | Siphon Feed Gun                                         | “                                                                   |
| P86079       | 360 Degree Wand for siphon feed gun                     | “                                                                   |

\*We believe these sources and their products to be reliable. There may be additional manufacturers of such material. General Motors does not endorse, indicate any preference for or assume any responsibility for the products from these firms or for any such items which may be available from other sources.

## Seam Sealers

Sealers are intended to prevent water and dust from entering the vehicle and also are anti-corrosion barriers. Sealers are applied to such areas as rear compartment lid hem flanges, wheelhouse, quarter outer, floor, cowl, roof, and various other panel to panel attaching points. The originally sealed joints are obvious and any damage to these sealed locations should be corrected by resealing. Attaching points of new replacement panels should be resealed. Replacement lids and doors will also require sealing in the hem flange areas.

Flanged joints, overlap joints, and seams should be sealed using a quality sealer of medium-bodied consistency. The sealer used must retain its flexible characteristics after curing and be paintable.

Open joints which require bridging of the sealer in order to close a gap should be sealed using a heavy-bodied caulking material. Follow the label directions for the material selected.

Color application may be required in order to restore repaired areas such as hood, fenders, doors, quarters, lid, roof, engine compartment, underbody, and inner panels to original appearance. When this is necessary, conventional refinishing preparation, undercoat buildup, and color application techniques should be followed.

Deadener materials, spray-on type, are used on various metal panels in order to provide corrosion resistance and joint sealing. They control the general noise level inside the passenger area of the vehicle. When deadeners are disturbed because of damage, are removed during repair operations, or a new replacement panel is installed, the deadener material must be replaced by a service equivalent material. The application pattern and location of deadener materials can be determined by observing the original production installation.

Cleaning of the interior and underbody panel surfaces is necessary when original galvanized or other anti-corrosion materials have been burned off during welding or heating operations. Removal of the residue from burning will require additional care in such areas as interior surfaces of box-type construction and when configurations of the metal panels limit access to interior surfaces.