



# SHOP PRIMER V142

## Features

- Economical protective coat
- Accepts a wide variety of topcoats
- Dry to the touch in 30 minutes

## Recommended For

Steel and Iron. Corotech® Shop Primer is designed for the General Metal Finishing and Fabrication Market, as well as the Industrial Maintenance Market. It is not intended for severe chemically corrosive environments, immersion service or non-ferrous metals.

## General Description

Shop Primer is an economical steel primer for commercial use in mild to moderate exposures. This product is ideal as a temporary transport coat on fabricated pieces or as an economical barrier primer. It is a temporary coating. This primer may be top-coated with a wide variety of finishes. However, finishes containing strong solvents (Ketones, Xylene, Toluene) may cause wrinkling or lifting of Shop Primer.

## Limitations

- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C). Relative humidity should be below 90%.
- Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.
- Not for immersion service.
- Do not topcoat with products such as Epoxies or Urethanes containing aromatic or oxygenated solvents.

## Product Information

### Colors — Standard:

Red (20), Gray (70)

### — Tint Bases:

N/A  
Do not tint

### — Special Colors:

Contact your retailer.

### Certification & Qualifications:

The products supported by this data sheet contain a maximum of 340 grams per liter VOC / VOS (2.83 lbs. /gal.) excluding water & exempt solvents.

Meets SSPC Paint 15, Type 1

Meets CISC/CPMA 1-73a and CISC/PMA 2-75 Specifications

Suitable for Use in USDA Inspected Facilities

| VOC REGION | COMPLIANT |
|------------|-----------|
| FEDERAL    | YES       |
| OTC        | YES       |
| OTCII      | NO        |
| CARB       | NO        |
| CARB07     | NO        |
| UTAH       | NO        |
| AZMC       | YES       |
| SCAQMD     | NO        |

### Technical Assistance:

Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit [www.benjaminmoore.com](http://www.benjaminmoore.com)

### Technical Data

Red

|  |   |            |                |             |                |             |        |
|--|---|------------|----------------|-------------|----------------|-------------|--------|
| Vehicle Type   | Alkyd   |            |                |             |                |             |        |
| Pigment Type   | Titanium Dioxide  |            |                |             |                |             |        |
| Volume Solids  | 53 ± 1.0%   |            |                |             |                |             |        |
| Coverage per Gallon at Recommended Film Thickness  | 350 - 400 Sq. Ft.   |            |                |             |                |             |        |
| Recommended Film Thickness   | <table border="0"> <tr> <td>– Wet</td> <td>4.0 – 4.5 mils</td> </tr> <tr> <td>– Dry</td> <td>2.1 – 2.4 mils</td> </tr> </table>   | – Wet      | 4.0 – 4.5 mils | – Dry       | 2.1 – 2.4 mils |             |        |
| – Wet  | 4.0 – 4.5 mils  |            |                |             |                |             |        |
| – Dry  | 2.1 – 2.4 mils  |            |                |             |                |             |        |
| Depending on surface texture and porosity.   |   |            |                |             |                |             |        |
| Dry Time @ 77 °F (25 °C) @ 50% RH  | <table border="0"> <tr> <td>– To Touch</td> <td>30 Minutes</td> </tr> <tr> <td>– To Recoat</td> <td>2 Hours</td> </tr> <tr> <td>– Full Cure</td> <td>7 Days</td> </tr> </table> | – To Touch | 30 Minutes     | – To Recoat | 2 Hours        | – Full Cure | 7 Days |
| – To Touch   | 30 Minutes  |            |                |             |                |             |        |
| – To Recoat  | 2 Hours   |            |                |             |                |             |        |
| – Full Cure  | 7 Days  |            |                |             |                |             |        |
| High humidity and cool temperatures will result in longer dry, recoat and service times. |   |            |                |             |                |             |        |
| Dries By   | Oxidation   |            |                |             |                |             |        |
| Viscosity  | 80 – 90 KU  |            |                |             |                |             |        |
| Flash Point  | 75 °F or greater<br>(TT-P-141, Method 4293)   |            |                |             |                |             |        |
| Gloss/Sheen  | 0 – 5 units @ 60°   |            |                |             |                |             |        |
| Surface Temperature at Application   | <table border="0"> <tr> <td>– Min.</td> <td>50 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> </table>   | – Min.     | 50 °F          | – Max.      | 90 °F          |             |        |
| – Min.   | 50 °F   |            |                |             |                |             |        |
| – Max.   | 90 °F   |            |                |             |                |             |        |
| Thin With  | Do Not Thin   |            |                |             |                |             |        |
| Clean Up Thinner   | Corotech V701 Brush & Spray Reducer or V703 Xylene  |            |                |             |                |             |        |
| Weight Per Gallon  | 12.4 lbs.   |            |                |             |                |             |        |
| Storage Temperature  | <table border="0"> <tr> <td>– Min.</td> <td>40 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> </table>   | – Min.     | 40 °F          | – Max.      | 90 °F          |             |        |
| – Min.   | 40 °F   |            |                |             |                |             |        |
| – Max.   | 90 °F   |            |                |             |                |             |        |
| <b>Volatile Organic Compounds (VOC)</b>  |   |            |                |             |                |             |        |
| 337 Grams/Liter  | 2.8 Lbs./Gallon   |            |                |             |                |             |        |

◇ Reported values are for Red. Contact retailer for values of other bases or colors.

## Shop Primer V142

### Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, form release agents, curing compounds, loose and flaking paint and other surface contaminants.

**NEW SURFACES: Steel:** For best results, abrasive blast to a commercial blast (SSPC-SP 6). For mild conditions, a hand or power tool cleaning (SSPC-SP 2) may be satisfactory, but performance is dependent upon the degree of surface preparation.

**Previously Painted Surfaces:** Wash and rinse any areas that may have oil or grease residue. Dull glossy surfaces by lightly sanding. Remove sanding dust. Remove loose paint. All areas that are rusting, blistering, cracking or peeling must be cleaned to bare metal. If more than 25% of the surface is involved, sandblast the entire surface to a commercial blast and prime. If less than 25% of the surface is involved, clean soiled areas and spot prime.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Informational Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

### Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this. Spray application only.

**Airless Spray:** Tip range between .013 and .017. Total fluid output pressure at tip should not be less than 2200 psi.

**Air Spray (Pressure Pot):** DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

If necessary, small areas can be brushed or rolled using a 3/8" lambs wool or 1/4" - 1/2" synthetic roller cover. Roll in one direction, rewet, then cross roll

**NOTE:** Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. No reduction is necessary. Do not apply if material, substrate or ambient temperature is below 50°F (10°C). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

| TEST DATA  |   |
|--|---|
| Flexibility (ASTM D1737)                                   | Pass ¼" Mandrel                           |
| Steam Resistant  | Yes                                       |
| Dry Heat Resistance  | 200° F                                    |
| Wet Heat Resistance  | 125° F                                    |
| Adhesion (ASTM D3359)                                      | Pass 5B                                   |
| Salt Spray (ASTM B117)<br>(1 Coat w/2 topcoats; 500 Hours) | Rust Breakthrough: 10<br>Rust Area: 0.01% |

| CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)   |   |
|---|---|
| Fresh Water   | See Finish Coat Data Sheets for Resistance Information. |
| Salt Water  |   |
| Acids   |   |
| Alkalis   |   |
| Solvents  |   |
| Fuel  |   |
| Acidic Salt Solutions   |   |
| Alkaline Salt Solutions   |   |
| Neutral Salt Solutions  |   |
| SYSTEMS RECOMMENDATIONS   |   |
| COMPATIBLE FINISHES   |   |
| V200 Line, V201 Line, V230 Line, V231 Line, V300 Line, V330 Line, V440 Line and Other Acrylics & Alkyds |   |

### Clean Up

Clean up with Corotech® V701 Brush & Spray Reducer or V703 Xylene.

### Environmental Health & Safety Information

#### DANGER!

**Causes skin irritation**

**Causes serious eye irritation**

**May cause an allergic skin reaction**

**May cause cancer**

**Causes damage to organs through prolonged or repeated exposure**

**May be fatal if swallowed and enters airways**

**Flammable liquid and vapor**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/mist/vapors/spray. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces, no smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** If exposed or concerned get medical attention. If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention. If skin irritation or rash occurs get medical attention. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If swallowed immediately call a POISON CENTER or physician. Do NOT induce vomiting. In case of fire use CO2, dry chemical, or foam for extinction.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents /container to an approved waste disposal plant.

**DANGER -** Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.



**WARNING** Cancer and Reproductive Harm—  
[www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN  
FOR PROFESSIONAL USE ONLY**

**Refer to Safety Data Sheet for  
additional health and safety information.**