



ICI Devoe Coatings is a member of the ICI Paints World Group

# DEVGUARD™ 4160

## Multi-Purpose Tank & Structural Primer

**Cat. # 4160-XXXX**  
(4160-1000 White/4160-6120 Gray/4160-7100 Red)

### PRODUCT DESCRIPTION

**Generic:** Alkyd

**General Description:** A high solids, rust-inhibitive, interior-exterior alkyd primer for use on ferrous and non-ferrous metal including galvanized metal and aluminum. May be topcoated on ferrous metal with epoxy, vinyl, urethane and chlorinated rubber coatings as well as conventional alkyd and latex products. Excellent for use as a barrier coat when applied over sound aged oil or alkyd finishes which are to be topcoated with heavy-duty coatings. This product has exceptional resistance to exterior weathering, making it suitable for use as a shop primer.

**Typical Uses:** Ideal for structural steel, tanks, piping and equipment.

**Special Qualifications:** Suitable for use on structural surfaces or surfaces where there is a possibility of incidental food contact in commercial food preparation establishments, food processing plants and federally inspected meat and poultry plants. USDA no longer requires or furnishes product certification letters.

### FEATURES

**Advantages:**

- May be used on both ferrous and galvanized metal
- Excellent corrosion resistance
- Fast dry
- May be topcoated with heavy-duty coatings
- Lead and chromate free
- High volume solids
- Performance alternate for Federal Specifications TT-P-615D, TT-P-636D, and TT-P-645B

### SPECIFICATION DATA

**Color:** White, Gray & Red

**Finish:** Flat

**Clean-up Solvent:** Xylene

**Weight/Gallon (White):** 11.8 lbs./gal. (1.41 kg/L) - varies with color

**VOC (White):** 3.50 lbs./gal. (419 g/L) - varies with color

**Solids By Volume (White):** 51% ± 1% - varies with color

**Theoretical Coverage at 1.0 Mil Dry:** 818 sq. ft./gal. (20 m<sup>2</sup>/L)

**Practical Coverage:** Apply at 334-417 sq. ft./gal. (8-10 m<sup>2</sup>/L). Actual coverage may vary depending on substrate and application method.

**Recommended Film Thickness:** 2.0-2.5 mils (50-62 microns) dry - 4.0-5.0 mils (100-125 microns) wet

**Systems:** Please consult the appropriate system guide, the particular job specification or your ICI Devoe Coatings' Industrial Coatings Specialist for proper systems using this product. Systems must be selected considering the particular environment involved.

**Service Temperature Limit:** 200°F (93°C) in air

**Flame Spread Rating:** Class A (0-25) over non-combustible surfaces.

**Flash Point:** 108°F (42°C)

**Dry Time @ 77°F (25°C) & 50% RH:**

To touch - 20 minutes

To handle - 30 minutes

To recoat - 2 hours (allow 48-72 hours, if topcoating with heavy-duty or waterborne coatings)

**Warning:** The above table provides guidelines only. Always consult your ICI Devoe Coatings Specialist for appropriate recoat windows since the maximum aged recoat time of this product may be significantly shortened or lengthened by a variety of conditions, including, but not limited to humidity, surface temperature, and the use of additives or thinners. The use of accelerators or force curing may shorten the aged recoat of individual coatings. The above recoat windows may not apply if recoating with a product other than those listed above. If the maximum aged recoat window is exceeded, please consult your ICI Industrial Coatings Specialist for appropriate recommendations to enhance adhesion. Failure to observe these precautions may result in intercoat delamination.

**Shelf Life:** 1 year minimum - unopened

### PERFORMANCE DATA

**PROPERTY**

Adhesion  
Abrasion

Condensing Humidity Resistance  
Salt Spray (Fog) Resistance

**TEST METHOD**

ASTM D 4541  
ASTM D 4060, CS-17 wheels, 1000g load, 1000 cycles  
ASTM D 4585, 15,000 hours  
ASTM B 117, 500 hours

**RESULTS**

>1000 psi  
250mg loss  
  
No effect  
1/16" rust creepage at scribe

DANGER! COMBUSTIBLE. HARMFUL OR FATAL IF SWALLOWED. Read label and Material Safety Data Sheet Prior to Use. See other cautions on last page. DSF2-0790

FINISHES  
SPECIAL COATINGS (9800)

ICI DEVOE COATINGS  
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FINISHES  
SPECIAL COATINGS (9800)

## GENERAL SURFACE PREPARATION

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, form release agents, curing compounds, efflorescence, loose and flaking paint and other foreign substances.

**New Surfaces: Steel** - Best results are obtained over a surface sandblasted to a Commercial Blast (SSPC-SP6). Performance over hand or power-tool cleaned surfaces is dependent on the degree of cleaning. Prime with this product.  
**Galvanized Metal and Aluminum** - Prime with this product. Not recommended on metal where pooling water is likely, such as roofs, etc. Avoid strong solvent topcoats such as epoxies and urethanes when used over galvanized metal.

**Previously Painted Surfaces:** Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Dull glossy areas by light sanding. Remove sanding dust. Remove loose paint. Scrub heavy chalk areas and overhead areas such as eaves with soap and water. Remove all mildew by washing with a solution of 16 oz. (473 mL) liquid household bleach and two oz. (59 mL) non-ammoniated liquid detergent per gallon (3.785 L) of water. Rinse surfaces clean with water and allow to dry for 24 hours. All areas failed by rusting, peeling, blistering, etc., shall be wire brushed and scraped to remove all loose or loosely adhering material. Prime bare areas with primer specified under **New Surfaces**. For optimum performance in more corrosive areas, entire surface should be abrasive blast cleaned and primed with this product.

## DIRECTIONS FOR USE

**Tinting:** May be tinted with up to four oz./gal. of ICI colorants.

**Spreading Rate:** Recommended coverage 334-417 sq. ft./gal. (8-10 m<sup>2</sup>/L) or 4.0-5.0 mils wet (2.0-2.5 mils dry) on smooth, sealed surfaces. Actual coverage may vary depending on substrate and application method. Do not exceed maximum dry film thickness or solvent entrapment may occur, causing slow film cure extending recoat times.

**Application:** Mix thoroughly before use. May be applied by brush, roll or spray. No thinning required. Do not apply when the surface or air temperature is below 45°F (7°C). Brushing

and rolling may require multiple coats to achieve correct film thickness and/or hiding.

**Drying Time:** At 70°F (21°C) and 50% R.H., dries to touch in 20 minutes, to handle in 30 minutes, to recoat in two hours and thorough dry in eight hours. If topcoating with heavy duty or waterborne coatings, allow to dry 48-72 hours. Low temperature, high humidity, thick films or poor ventilation will increase these times.

**Clean-up:** Clean immediately with xylene.

## PRECAUTIONS

**DANGER! COMBUSTIBLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD - CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. OVEREXPOSURE MAY CAUSE LIVER, KIDNEY DAMAGE. CONTAINS CRYSTALLINE SILICA WHICH CAN CAUSE LUNG CANCER AND OTHER LUNG DAMAGE IF INHALED. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Products in this series contain solvents.** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. For emergency information call (800) 545-2643. Keep away from heat, sparks and flame. **Do not smoke.** Vapors may ignite. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. If sanding is done, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. If you experience eye watering, headaches, or dizziness, leave the area. If properly used, a respirator may offer additional protection. Obtain professional advice before using. Close container after each use. **FIRST AID:** In case of skin contact, wash off **quickly** with plenty of soap and water, remove contaminated clothing. For eye contact flush **immediately** with large amounts of water, for at least 15 minutes. **Obtain emergency medical treatment.** If swallowed, **obtain medical treatment immediately.** If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, **get medical help.** **Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information.**

DS40-0697

## SHIPPING

**Freight Classification:** Paint  
**Flash Point:** 108°F (42°C)  
**Packaging:** 1 gallon (3.785L)  
 5 gallons (18.925L)

**Shipping Weight:** 4 gallon case - 48 lbs. (21.8 kg)  
 5 gallon pail - 59 lbs. (26.8 kg)

4160-XXXX (11/99)  
 Ad Stock #68610B



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