

### PRODUCT DESCRIPTION

Generic: Waterborne Acrylic

General Description: An advanced technology, premium quality, flat waterborne acrylic coating for use as a protective maintenance rust inhibitive direct-to metal (DTM) primer and finish. Bonds to aged and glossy alkyd coatings without sanding.

Typical Uses: Ideal for the exterior of tanks, metal buildings, structural steel, piping, handrails and masonry construction. Can be applied directly to interior or exterior steel, weathered or properly cleaned galvanized steel and masonry in institutional, residential, and light industrial areas.

Product Qualifications	
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes
MPI (#107 and #134)	Yes
Suitable for use in USDA inspected facilities.	Yes

### FEATURES

Advantages:

- Direct-to-metal or masonry primer
- Multiple surface uses - interior and exterior steel, masonry or interior wood
- Ideal for shop applications
- Low VOC
- Low odor and water clean-up
- Fast dry and recoat
- Resists flash rust
- Corrosion resistant
- Easy application by brush, roll or spray
- Performance alternate for Federal Specifications MIL-P-28577B and TT-P-1975

Limitations of Use: Not recommended for exterior wood. May only be topcoated with DEVFLEX waterborne and conventional latex finishes.

### SPECIFICATION DATA

Color: White (4020-1000), & Red (4020-7100)

Finish: Flat

Clean-up Solvent: Soap and water

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

VOC (White): 0.76 lbs./gal. (91 g/L) - varies with color

Solids By Volume (White): 44% ± 2% - varies with color

Theoretical Coverage at 1.0 Mil Dry: 706 sq. ft./gal. (17 m<sup>2</sup>/L)

Practical Coverage: Apply at 275-350 sq. ft./gal. (7-9 m<sup>2</sup>/L).

Actual coverage may vary depending on substrate and application method.

Recommended Film Thickness: 2.2-3.5 mils (55-88 microns) dry - 5.0-8.0 mils (125-200 microns) wet

Systems: Please consult the appropriate system guide, the particular job specification or your sales representative for proper systems using this product. Systems must be selected considering the particular environment involved.

Dry Time (ASTM D 1640) @ 77°F (25°C) & 50% RH:

<u>Substrate Temperature</u>	77°F (25°C)
<u>Minimum Recoat</u>	2 Hours
<u>Dry Hard</u>	2 Hours
<u>Maximum Recoat</u>	
Self	No Limit
DEVFLEX	No Limit

Ventilation, film thickness, humidity, thinning and other factors can influence the rate of dry.

Warning: The above table provides general guidelines only. Always consult your sales representative 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 sales representative 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	TEST METHOD	RESULTS
Pencil Hardness	ASTM D 3363	2B
Flexibility	ASTM D 522, Method B, 1/8"	No cracking or flaking
Impact Resistance	ASTM D 2794	160 in-lbs
Humidity/Corrosion Resistance	ASTM D 4585, 1000 hours	No effect
Flash Rust Resistance	Sandblasted Steel @ 90F 7 90% RH	No rusting
Service Temperature Limit:		200°F (93°C) in air
Flame Spread Rating	ASTM E 84	Class A (0-25) over non-combustible surfaces

Read Label and Material Safety Data Sheet Prior to Use. See other cautions on last page. DSF1-0690

## 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 or ISO-Sa2). Performance over hand or power tool cleaned surfaces is dependent on the degree of cleaning. Prime with this product. If rust staining occurs, apply a second coat of this product. Galvanized Metal and Aluminum – Prime with this product. Concrete, Plaster and Masonry – Must cure at least 30 days before painting. pH must be 10.0 or lower. Roughen slick poured or pre-cast concrete and remove sealers by chemical cleaning or abrasive method such as grit sweeping. Rinse thoroughly with water and allow to dry. Remove loose aggregate. Prime with this product. Fill block with latex block filler BLOXFIL® 4000 or PREP & PRIME® 3010 filler. Interior Wood and Drywall – Prime with this product.

**Previously Painted Surfaces:** Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Sanding is not required if the surface is properly and thoroughly

cleaned (scuff sanding is required only on glossy, hard, slick or dense surfaces which are subject to high levels of moisture). Remove loose paint. Scrub heavy chalk exterior areas and overhead areas such as eaves with soap and water. All existing mildew must be removed 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. Prime bare areas with primer specified under New Surfaces. May be used self primed over previously painted interior surfaces.

**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 Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

## DIRECTIONS FOR USE

**Tinting:** White may be tinted with up to four oz./gal. of AkzoNobel Colorants. Prime coats used direct-to-steel should not be tinted for best flash rust resistance.

**Spreading Rate:** Apply at 200-320 sq. ft./gal. (5-8 m<sup>2</sup>/L) or 5.0-8.0 mils wet (2.2-3.5 mils dry). Actual coverage may vary depending on substrate and application method. For best hiding, tint primer toward finish coat color.

**Application:** Mix thoroughly before use. May be applied by brush, roll or spray. No thinning required. Spray is preferred for application to bare steel to ensure adequate film build and protection. For airless spray, use a .015" tip.

Adjust pressure as needed. Do not apply when air or surface temperature is below 50°F (10°C).

**Dry Time (ASTM D 1640):** At 77°F (25°C) and 50% R.H., dries to touch in 30 minutes and to recoat in two hours. Low temperature, high humidity, thick films or poor ventilation will increase these times.

**Clean-up:** Clean immediately with warm, soapy water.

## PRECAUTIONS

**WARNING! 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 BLOOD, LIVER, KIDNEY DAMAGE. CONTAINS CRYSTALLINE SILICA WHICH CAN CAUSE LUNG CANCER AND OTHER LUNG DAMAGE IF INHALED. WHEN TINTED, CONTAINS ETHYLENE GLYCOL WHICH CAN CAUSE SEVERE KIDNEY DAMAGE WHEN INGESTED AND HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMALS. 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. **Note:** These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information. If sanding, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. Avoid contact with eyes and skin. 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:** For skin contact, wash thoroughly with soap and water. If any product remains, gently rub with petroleum jelly, vegetable or mineral/baby oil then wash again with soap and water. Repeat as needed. Remove contaminated clothing. For eye contact, flush immediately with plenty of water for at least 15 minutes. **Get medical attention.** If swallowed, **get medical attention immediately.** If inhalation causes discomfort, remove to fresh air. If discomfort persists or breathing difficulty occurs, get medical attention. **KEEP FROM FREEZING.**

DS458-1009

## SHIPPING

Flash Point: Paint  
Packaging: 1 gallon (3.785L)  
5 gallon (18.925L)

Shipping Weight: 4 gallon case - 50 lbs. (22.7 kg)  
5 gallon pail - 62 lbs. (28.1 kg)

4020PF (02/10)  
Ad Stock #68602F



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