



# DEVFLEX™ 4212HP

## High Performance Waterborne Acrylic Eggshell Enamel

Cat# 4212-XXXX

### PRODUCT DESCRIPTION

**Generic:** Waterborne Acrylic

**General Description:** A premium quality, direct to metal acrylic eggshell enamel for high traffic interior-exterior areas of commercial, institutional, residential and industrial structures. Features a non-yellowing film with excellent durability.

**Typical Uses:** May be applied directly to interior or exterior steel and aluminum, and to properly primed galvanized metal, wood or masonry surfaces.

Product Qualifications	
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes
MPI Category 151 (Gloss Level 3)	Yes

### FEATURES

**Advantages:**

- Alkyd-like hardness and durability
- Excellent color retention
- High hiding
- Non-yellowing
- All purpose finish for multiple surfaces
- Excellent resistance to grease, oil and water
- Excellent flow and leveling
- Resists peeling and chipping
- Low odor and water clean-up
- Washable and scrubbable
- Good abrasion resistance
- Easy application - brush, roll or spray
- Low odor and water clean-up
- Low VOC (<100 g/L)
- May be applied direct to steel and aluminum

**Limitations of Use:** Not recommended for large areas of exterior wood such as wood siding.

### SPECIFICATION DATA

**Color:** White, Custom Colors & Black

**Finish:** Eggshell, 10-25 units @ 60° (MPI Gloss Level 3)

**Clean-up Solvent:** Soap and water

**Weight/Gallon:** 10.84 lbs./gal. (1.30 kg/L) - varies with color

**VOC:** < 0.83 lbs./gal. (<100 g/L)

**Solids By Volume:** 36% ± 2%

**Theoretical Coverage at 1.0 Mil Dry:** 577 sq. ft./gal. (14.2 m²/L)

**Practical Coverage:** Apply at 144-385 sq. ft./gal. (3.5-9.5 m²/L).

Actual coverage may vary depending on substrate and application method.

**Recommended Film Thickness:** 1.5-4.0 mils (38-76 microns) dry – 4.2- 11.1 mils (107-282 microns) wet.

**Systems:** Please consult the appropriate system guide, the particular job specification or your ICI Paints 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:**

To touch - 1 hour

To recoat - 4 hours

Substrate Temperature	50°F (10°C)	60°F (16°C)	77°F (25°C)
Minimum Recoat	36 Hours	30 Hours	4 Hours
Dry Hard	36 Hours	30 Hours	24 Hours
Maximum Recoat			

**Self**  
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 ICI Paints 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 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 Paints 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**

Abrasion Resistance

Pencil Hardness

Flexibility

Impact Resistance

Accelerated weathering

Service Temperature Limit

Flame Spread Rating:

**TEST METHOD**

ASTM D 4060 CS-17 wheels 1000g load,  
300 cycles

ASTM D 3363

ASTM D 522, 1/8" mandrel

ASTM D 2794

ASTM G 23 QUV 1000 hrs

ASTM E 84

**RESULTS**

72 mg loss

2B

No cracking or flaking

160 in.-lbs.

Excellent gloss retention

200°F (93°C) in air

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, wax, polish, dirt, mildew, form release agents, curing compounds, efflorescence, loose and flaking paint and other foreign substances.

**New Surfaces: Steel and Aluminum** -Best results are obtained over a surface abrasive blasted to commercial blast cleanliness (SSPC-SP6) or ISO-Sa2. Performance over hand or power tool cleaned surfaces is dependent on the degree of cleaning. Prime with this product or DEVFLEX™4020 primer. For maximum corrosion protection, prime with DEVGUARD™4160 or DEVGUARD™ 4360 primers depending on local VOC regulations. When using colors tinted with more than 2 oz./gal. of ICI Paints Colorants, a primer is recommended. When using as a DTM finish without a primer, a minimum of two coats is recommended for best corrosion resistance. **Galvanized Metal**- Prime with DEVRAN® 205 or DEVRAN® 203 epoxy primers, DEVFLEX 4020 acrylic primer or DEVGUARD 4160 or DEVGUARD 4360 primers depending on local VOC regulations. **Wood**- Interior, set nails and fill holes with latex spackle. Sand smooth. Dust clean. Self-prime or prime with PREP & PRIME® Wall & Woodwork 1020 primer sealer. Do not use this product with lacquer undercoats. Exterior, spot prime pine knots with PREP & PRIME® HYDROSEALER®6001 primer. Prime entire surface with PREP & PRIME HYDROSEALER 6001 primer. **Drywall**- Prime with PREP & PRIME Hi-Hide Wall 1000 primer sealer. **Concrete, Plaster and Masonry**- Cure at least 30days before painting. pH must be 10.0 or lower. Roughen slick poured or pre-cast concrete and remove sealers by chemical cleaning or abrasive blasting. Rinse thoroughly

with water and allow to dry. Remove loose aggregate. Prime interior concrete or plaster with this product or with PREP & PRIME Bond Prep 3030 primer sealer. Prime exterior masonry with PREP & PRIME HYDROSEALER 6001 primer. Fill concrete block with BLOXFIL® 4000 or PREP & PRIME 3010 fillers.

**Previously Painted Surfaces:** Remove oil or grease residue by washing. 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. Prime bare areas with primer specified under **NEW SURFACES**. Can be used self-primed over previously painted surfaces followed by a finish coat of this product.

**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:** Tint the appropriate base with ICI Paints Colorants.

**Spreading Rate:** Apply at 144 -385 sq.ft./gal.(3.5-9.5 m<sup>2</sup>/L) or 4.2-11.1 mils wet (1.5-4.0 mils dry). Actual coverage may vary depending on substrate and application method. For best hiding, tint primers toward finish coat color.

**Application:** Mix thoroughly before use. May be applied by brush, roll or spray. No thinning required. Due to fast dry, brushing should be limited to small areas where a wet edge can be maintained. Rinse out brush in warm water periodically during extended brush application periods. If touch-up is required after the enamel

has set, wait until it has thoroughly dried. For airless spray, use a .015" tip. Adjust pressure as needed. Use two coats of this enamel for maximum durability and uniformity. Do not apply when surface or air temperature is below 50°F (10°C). Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding.

**Drying Time (ASTM D 1640):** At 77°F (25°C) and 50% R.H., dries to touch in one hour and to recoat in 4 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 IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. 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.** DS384-0506

## SHIPPING

**Flash Point:** None  
**Packaging:** 1 gallon (3.785L)  
5 gallons (18.925L)

**Shipping Weight:** 4 gallon case - 44 lbs. (20.0 kg)  
5 gallon pail - 54 lbs. (24.5 kg)

4212 (01/09)  
Ad Stock # 68838



Strongsville, Ohio U.S.A.  
800-654-2616  
[www.devoecoatings.com](http://www.devoecoatings.com)

**LIMITATION OF LIABILITY:** To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained therein. WE MAKE NO OTHER WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Liability, if any, is limited to replacement of the product or refund of the purchase price. LABOR OR COST OF LABOR AND OTHER CONSEQUENTIAL DAMAGES ARE HEREBY EXCLUDED.