

PRODUCT DESCRIPTION

Generic: Advanced DEVCRYL® Technology Acrylic Resin

General Description: An advanced technology, premium quality, waterborne acrylic semi-gloss enamel for interior or exterior use on properly prepared wood, metal, or masonry surfaces. Bonds to clean glossy, hard surfaces such as aged oil base or alkyd enamels. Features alkyd-like hardness and durability, exceptional adhesion, superior flow and leveling, fast dry, easy application, excellent gloss and color retention, low odor, and high hiding. Low VOC. Application characteristics include "Dry-Fall" under most conditions. (see **Application**)

Typical Uses: This all purpose, non-yellowing finish is ideal for use on walls, equipment, machinery, piping, structural steel, storage tanks, wood or metal trim, shutters, building exteriors, pre-finished siding, furniture and metal fences.

Product Qualifications	
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
MPI (#153, Gloss level 5)	Yes
Suitable for use in USDA inspected facilities.	Yes

FEATURES

Advantages:

- Alkyd-like hardness and durability
- Excellent gloss and color retention
- Low odor and water clean-up
- High hiding
- Non-yellowing
- Washable and scrubbable with mild detergents
- Rapid dry - minimum downtime in plant operations
- Good abrasion resistance
- Bonds to glossy surfaces
- Easy application - brush, roll or spray
- All purpose finish for multiple surfaces
- Highly flexible - resists peeling and chipping
- VOC less than 100 g/L
- Dry fall properties (see **Application** for details)
- Performance alternate for Federal Specification MIL-P-28578B

Special Note: For uses where direct hand contact is expected to be heavy, such as hand railings and banisters, use DEVFLEX 4216HP acrylic, or for extreme industrial applications, use TRU-GLAZE-WB™ 4408 epoxy.

SPECIFICATION DATA

Color: White and custom colors

Finish: Semi-Gloss, 50 units @ 60°

Clean-up Solvent: Soap and water

Weight/Gallon: 10.4 lbs./gal. (1.25 kg/L) - varies with color

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

Solids By Volume: 45% ± 2% - varies with color

Theoretical Coverage at 1.0 Mil Dry: 721 sq. ft./gal. (16 m²/L)

Practical Coverage: Apply at 361-481 sq. ft./gal. (8.8-11.8 m²/L).

Actual coverage may vary depending on substrate and application method.

Recommended Film Thickness: 1.5-2.0 mils (38-50 microns) dry - 3.6-4.8 mils (88-125 microns) wet

CAUTION: Do not exceed a total DEVFLEX dry film thickness of 5 mils dry.

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:

To touch - 1 hour

To recoat - 2 hours

Substrate Temperature	50°F (10°C)	60°F (16°C)	77°F (25°C)
Minimum Recoat	6 Hours	4 Hours	2 Hours
Dry Hard	30 Hours	24 Hours	16 Hours
Maximum Recoat			
Self	No Limit	No Limit	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: Over 12 months at 77°F (25°C) – unopened

PERFORMANCE DATA

PROPERTY	TEST METHOD	RESULTS
Abrasion Resistance	ASTM D 4060 CS-17 wheels 1000g load, 1000 cycles	260mg loss
Pencil Hardness	ASTM D 3363	B
Flexibility	ASTM D 522, Method B, 1/8"	No cracking or flaking
Impact Resistance	ASTM D 2794	>100 in.-lbs.
Stain Resistance (grape, juice, lipstick, coffee, mustard, food coloring)	ASTM D 1308	Excellent resistance
Block Resistance	ASTM D 2793, 2kg/in ² @ 120°F	Excellent, no sticking
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, wax, polish, mildew, form release agents, curing compounds, efflorescence, loose and flaking paint and other foreign substances. Scuff sanding is required on glossy, hard, slick or dense surfaces in exterior areas or other areas which are subject to high levels of moisture.

New Surfaces: Steel - Prime with DEVFLEX™ 4020 waterborne primer and allow to dry overnight. **Galvanized Metal and Aluminum** - Prime with DEVFLEX 4020 waterborne primer and allow to dry overnight. **Wood** - Interior, set nails and fill holes with latex spackle. Sand smooth. Dust clean. Self-prime or prime with PREP & PRIME® GRIPPER® 3210 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 GRIPPER 3210 primer sealer or DEVFLEX 4020 waterborne primer. **Concrete, Plaster and Masonry** - 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 blasting. Rinse thoroughly with water and allow to dry. Remove loose aggregate. Prime interior concrete or plaster with this product or with PREP & PRIME GRIPPER 3210 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: Wash to remove contaminants. Rinse thoroughly with water and allow to dry. 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**. Prime porous flat interior surfaces with PREP & PRIME GRIPPER 3210 primer or for exterior surfaces prime with PREP & PRIME HYDROSEALER 6001 primer. 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.

DIRECTIONS FOR USE

Tinting: Tint the appropriate base with AkzoNobel™ Colorants. Over tinting may cause slow drying and water sensitivity especially in deep colors.

Spreading Rate: Apply at 361-481 sq. ft./gal. (8-11 m²/L) or 3.6-4.8 mils wet (1.5-2.0 mils dry). Actual coverage may vary depending on substrate and application method. For best hiding, tint primers toward finish coat color. Certain colors such as yellow, orange and pink may require multiple coats.

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. For improved brushing, add up to eight oz./gal. DEVFLEX 4207 Retarding Additive (do not exceed this level). If touch-up is required after the enamel has set, wait until it has thoroughly dried. For airless spray, use a .013" 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). Dry overspray can be wiped or washed from most surfaces. Satisfactory dry-fall performance depends upon the height of work, weather

conditions and equipment adjustment. Low temperature and high humidity are of particular concern. Test for each application as follows: Spray from 15 to 25 feet towards paint container. The material then should readily wipe off. **Note:** Heat can fuse dry overspray to surfaces. Always clean dry overspray from hot surfaces before fusing occurs. Be aware that exterior surface temperatures can be higher than air temperature. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding. Use two coats for best gloss and color retention.

Drying Time (ASTM D 1640): At 77°F (25°C) and 50% R.H., dries to touch in one hour 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.

Washing Instructions: Do not wash in less than seven days after application. Use a nonabrasive, mild detergent and water and a cellulose sponge. **Do not attempt to clean the dried film with cleaners that contain ammonia and/or solvent such as window, tile or appliance cleaners.**

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 gallon (18.925L)

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

4206 (02/10)
Ad Stock #68612E



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