

PRODUCT DESCRIPTION

Generic: Aliphatic Acrylic Polyurethane

General Description: A high performance, two-component chemically-cured aliphatic urethane gloss enamel for use in areas where maximum gloss & color retention are required.

Typical Uses: For use on properly prepared and primed steel, concrete or steel floors, masonry, drywall, plaster, metal, concrete block, galvanized, aluminum, poured concrete, and glazed brick. Ideal for use on exterior or interior structural steel, piping, metal buildings, control cabinetry, conveyors, pumps, storage tank exteriors, motors, machinery, and transportation vehicles.

SPECIFICATION DATA

Color: White (379K1000), ready-mixed & custom colors

Finish: Gloss (90 units @ 60°)

Reduction Solvent: T-9 or T-17 Thinner – see Thinning

Clean-up Solvent: T-9 Thinner

Weight/Gallon: 11.0 lbs./gal. (1.32 kg/L) – varies with color

VOC (EPA 24): 2.60 lbs./gal. (311 g/L) – varies with color

Solids By Volume (ASTM 2697-7 days): 63% ± 2%

Theoretical Coverage at 1.0 Mil (25 microns) Dry: 1011 sq. ft./gal. (24.9 m²/L)

Recommended Film Thickness: 2.0-3.0 mils (50-75 microns) dry – 3.2-4.8 mils (80-120 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.

Minimum Dry Time (ASTM D 1640): 2 mils (50 microns) DFT

Substrate Temperature	40°F (4°C)	60°F (16°C)	80°F (27°C)	100°F (38°C)
Minimum Recoat Dry Hard	10 Hours >32 Hours	6 Hours 24 Hours	3 Hours 16 Hours	4 Hours 12 Hours
Maximum Recoat Self	2 Weeks	2 Weeks	2 Weeks	7 Days

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 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 Paints' 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.

Mix Ratio By Volume: 4 (base): 1 (converter) – see mixing instructions.

Induction: None

Pot Life: 4 hours @ 77°F (25°C)

FEATURES

Advantages:

- Exceptional gloss and color retention
- Excellent abrasion and chemical resistance
- Easily applied by brush, roller or spray
- Wide color selection, including safety colors
- Excellent resistance to marring, chipping, and scratching
- Contains ultraviolet light absorber

Graffiti Resistance:

Excellent resistance to most graffiti materials such as spray paint, magic markers and lipstick. Contact your ICI Paints' Representative for more information on the graffiti removing cleaner to service your needs.

Limitations of Use: Color may change as temperature approaches 250°F (121°C) limit, but the film will remain intact.

PERFORMANCE DATA

Adhesion: (ASTM D 4541) – Excellent

Salt Spray Resistance: (ASTM B 117) – Excellent

Abrasion Resistance: (ASTM D 4060) – Excellent

Humidity Resistance: (ASTM D 4585) – Excellent

Exterior Exposure: 45° South Florida – Excellent

Service Temperature Limits: 250°F (121°C) dry

Hardness: (ASTM D 3363, 7 day cure @ 77°F (25°C) 4H

Chemical Resistance: (ASTM D 1308 – 24 hour contact) resists splash and spillage of alkalis, salts, moisture, oils, greases, foodstuffs and detergents.

Stain Resistance: (ASTM D 1308 – 1 week contact) Excellent. Resists stains such as crayon, lipstick, coffee, soil medium, shoe polish, grape juice, ink pen, marker, and spray paint.

GENERAL SURFACE PREPARATION

All surfaces must be sound, clean, dry, and free of oil, grease, mildew, form release agents, laitance, and foreign matter. To insure the best appearance, the primer or undercoat should be smooth and free of any surface defects such as runs, dry spray or heavy orange peel. **Use only products that are in compliance with local VOC regulations.**

New Surfaces: **Steel** – Clean and prime with DEVTRAN® 205, DEVTRAN 220, DEVTRAN 224HS, BAR-RUST® 231, BAR-RUST 233H, BAR-RUST 235, or TRU-GLAZE-WB™ 4030 primers. **Concrete Block** – Fill with DEVTRAN 220, DEVTRAN 224HS primers or TRU-GLAZE-WB™ 4015 or BLOXFIL® 4000 blockfillers.

Fiberglass – Solvent wipe, scuff sand and solvent wipe again. Prime with DEVTRAN 201 epoxy. **Concrete Floors, Poured Concrete** – Cure at least 30 days. pH must be 10.0 or lower before painting. Acid etch or abrasive blast slick, glazed concrete or concrete with laitance. Prime with DEVTRAN 220, DEVTRAN 224HS, BAR-RUST 231, BAR-RUST 233H, BAR-RUST 235, or TRU-GLAZE-WB 4030 primers or use PRE-PRIME™ 167 Penetrating Sealer.

Galvanized Steel and Aluminum – Remove dirt and oils by solvent cleaning

or with DEVPREP® 88 Cleaner or other suitable cleaner followed by a thorough water rinsing. Prime with DEVTRAN 205, DEVTRAN 201 or DEVTRAN 203 epoxy primers. **Galvanized substrates must be test patched for adhesion prior to use due to the high variability of surface treatments.**

Previously Painted Surfaces: Remove loose and peeling paint. Scuff sand glossy areas. Old coatings should be tested for lifting and bleeding. If they lift or bleed, remove them. Prime bare areas with a primer specified under **New 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.

DIRECTIONS FOR USE

Tinting: Tint the appropriate base with CHROMA-CHEM® 844 colorants. (Do not use water based or other colorants.) Add colorants to only the base portion. Mix thoroughly before adding the converter portion.

Thinning: Thinning is not normally required or desired, and excessive thinning can adversely affect application and appearance properties. However, at lower temperatures, small amounts (5% or less) of T-9 Thinner may be added depending on local VOC and air quality regulations. Small amounts (5% or less) of T-17 Thinner will improve roller or brush application on hot substrates. For end uses such as transportation vehicles where the smoothest, orange peel-free appearance is desired, additional thinning may be needed.

Mixing: DEVTHANE 379UVA Enamel is a two-component product supplied in 5 gallon or 1 gallon kits, which contain the proper ratio of ingredients. The entire contents of each container must be mixed together. It is important that all mixing equipment is free of moisture and that moisture does not contaminate the coating. Mix the base portion to obtain a smooth, homogeneous condition. After mixing the base portion, add the converter slowly with continued agitation. Mix thoroughly. The pot life of the mixed material is 4 hours at 77°F (25°C). Higher temperatures will reduce working life of the coating; lower temperatures will increase it. Avoid storing or placing containers in direct sunlight.

Application: Apply by airless spray, air spray, roller or brush. For airless spray, any air, electric, or gas operated airless sprayer capable of 3,000 psi (207 bars) and able to support .011" to .017" tip sizes can be used. Multiple guns and long fluid lines require pumps with adequate capacity. For air spray application, use a professional grade conventional gun with a 0.70" or larger fluid tip. Adjust fluid and air pressure to get a good spray pattern.

Note: Be sure all spray equipment and fluid lines are clean, and free of water or non-compatible solvents. For brush application, use good quality, dry, clean brushes. **For roller application use new, short nap mohair rollers.** Do not apply over wet surfaces or under very humid conditions where condensation or fog could settle on the coating during the cure process. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding.

Spreading Rate: For maximum protection in corrosive areas, apply at 335 sq. ft. per gallon (8.2 m²/L) or 3.0 mils (75 microns) dry-4.8 mils (120 microns) wet. In mild to moderate exposures, apply at 500 sq. ft. per gallon (12.25 m²/L) or 2.0 mils (50 microns) dry-3.2 mils (80 microns) wet. Make allowance for any losses due to over-spray or surface irregularities.

Dry Time: At 70°F (21°C) & 50% R.H., dries to recoat in 3 hours and dries hard in 16-24 hours.

Clean-up: Use T-9 Thinner.

Cure Acceleration: DEVTHANE Cure Accelerator 070A0000 may be used to accelerate cure of this urethane at or below 40°F (5°C). 070A0000 is prepackaged (5 fluid ounces in a one-half pint container) for field addition. The addition of one to two ounces per gallon of urethane (one to two containers per five gallons of urethane) will decrease the dry hard time approximately one-third to one-half respectively. The pot life will be reduced one-half to three-fourths.

Ultraviolet Light Absorbers (UVA): DEVTHANE Ultraviolet Light Absorber 080A0000 is already contained in DEVTHANE 379UVA Enamel. Additional Ultraviolet Light Absorber is not required nor desired.

PRECAUTIONS

DANGER! FLAMMABLE 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. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. 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.** 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. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. If sanding is done, 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.**

DS174-1005

SHIPPING

Flash point:	80°F (27°C)	
Packaging:	1 gallon kit (3.785L)	5 gallon kit (18.925L)
	0.80 gallon base	4.00 gallon base
	0.20 gallon converter	1.00 gallon converter

Shipping Weight:	1 gallon kit - 12 lbs. (5.4 kg)
	5 gallon kit - 59 lbs. (26.8 kg)

379KXXX (5/06)
Ad Stock #68659G

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