

### PRODUCT DESCRIPTION

**Generic:** Silicone Alkyd

**General Description:** A premium quality low VOC silicone alkyd gloss industrial enamel for use on machinery, equipment, piping and tanks. Color and gloss retention superior to conventional alkyd enamels. Free of mercury, lead, and chromate hazards. Dry heat resistant up to 300°F (149°C).

**Typical Uses:** Ideal for safety equipment and pipe identification. Provides excellent protection to metal surfaces as well as masonry, wood and wallboard. Also used as a trim enamel.

### SPECIFICATION DATA

**Color:** White (877S3501) and custom colors.

**Finish:** Gloss

**Reduction Solvent:** T-5 Thinner

**Clean-up Solvent:** T-5 Thinner

**Weight/Gallon:** 10.3 lbs./gal. (1.23 kg/L)

**VOC (EPA 24):** 2.82 lbs./gal. (338 g/L)

**Solids By Volume:** 58% ± 1

**Theoretical Coverage at 1.0 Mil Dry:** 930 sq. ft./gal. (22.9 m<sup>2</sup>/L)

**Recommended Film Thickness:** 1.5-2.5 mils (38-63 microns) dry  
- 2.6-4.3 mils (66-109 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):** At 2 mils (50 microns) DFT

<b>Substrate Temperature</b>	<b>77°F (25°C)</b>
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<b>To Handle</b>	12-18 hours
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<b>To Recoat</b>	Overnight
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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 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 24 months at 77°F (25°C) – unopened

### FEATURES

**Advantages:**

- Durable high gloss finish
- Low VOC
- Interior or exterior usage
- Protects against atmospheric corrosion
- Excellent flow and leveling
- High hiding
- Washable and scrubbable
- Good abrasion resistance
- Easy application - brush, roll or spray
- Excellent resistance to grease, oil and water
- Performance alternate for Federal Specification TT-E-490

**Limitations of Use:** Do not apply over zinc rich primers. Not recommended for immersion or exposure to solvents or strong chemicals.

### PERFORMANCE DATA

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

**Hardness:** (ASTM D 3363, 7 day cure @ 77°F (25°C) - B

**Abrasion Resistance:** (ASTM D 4060) – Excellent

**Elongation:** (ASTM D 522, Method B) – Excellent

**Salt Spray Resistance:** (ASTM B 117) – Good

**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

## 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** - Prime with DEVGUARD™ 4141, 4360, 4140 or 4160 primers. **Galvanized Metal and Aluminum** - Prime with TRU-GLAZE® WB 4030 Waterborne Epoxy, DEVTRAN® 203 Waterborne epoxy or DEVTRAN 205 epoxy primers. **Wood** - Interior, prime with PREP & PRIME™ 1120 alkyd primer. Exterior, spot prime knots with DULUX® Professional 2000 latex primer. Prime entire surface with PREP & PRIME HOUSE 2110 alkyd primer. **Drywall** - Prime with GRIPPER® 3210 latex primer. **Concrete, Plaster and Masonry** - Cure at least 30 days before painting. pH must be 10.0 or lower. Remove laitance and roughen unusually slick poured or pre-cast concrete by acid etching or abrasive sweep blasting. Follow acid manufacturer's application and safety instructions. Rinse thoroughly with water and allow to dry. Remove loose aggregate. Interior, prime with GRIPPER 3210 latex primer. Exterior, prime with latex primer DULUX Professional 2000. For alkaline conditions, use ULTRA-HIDE® 2120. Fill block with BLOXFIL® 4000 or PREP & PRIME 3010 fillers.

**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 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 severely weathered exterior surfaces with PREP & PRIME HOUSE 2110 alkyd primer. Surfaces in good condition generally may be done with one coat. Primer determinations should be based upon local VOC regulations.

**WARNING! If you scrape, sand or remove old paint from any surface, 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. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to [www.epa.gov/lead](http://www.epa.gov/lead).**

## DIRECTIONS FOR USE

**Tinting:** Tint only with CHROMA-CHEM® 844 colorants.

**Thinning:** Thinning is not normally required or desired. However, at extreme environmental conditions, small amounts (5% or less of the solvent on the reverse page may be added depending on local VOC and air quality regulations. Excessive thinning can cause low film thickness, sagging and other film defects.

**Mixing:** Mix thoroughly before use.

**Spreading Rate:** Apply at 372-620 sq. ft./gal. (9.2-15.3 m<sup>2</sup>/L) or 3.5-4.3 mils wet (1.5-2.5 mils dry). Actual coverage may vary depending on substrate and application method. For best hiding, tint primers toward finish coat color. Certain shades of yellow, orange, pink and red may require multiple coats.

**Important:** Alkyd or oil-based enamels may yellow in time in the absence of light, especially sunlight.

**Application:** Mix thoroughly before use. May be applied by brush, roll or spray. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding. No thinning required. For airless spray use a .013" tip. Adjust pressure as needed. Do not apply in damp weather or when surface or air temperature is below 40°F (4°C). Two coats will provide best durability and uniformity. Surfaces coated with this product may become slippery when wet. For additional slip resistance in areas of pedestrian traffic, add one pound per gallon of coarse pumice or other texturing material.

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

**Clean-up:** Clean immediately with mineral spirits or T-5 Thinner.

## 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. 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:** In case of skin contact, wash thoroughly with soap and water. If any product remains, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin, then wash again with soap and water. Repeated applications may be needed. 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. **KEEP FROM FREEZING.**

DS37-1003

## SHIPPING

**Flash Point:** 100°F (38°C)  
**Packaging:** 1 gallon (3.785L)  
5 gallon (18.925L)

**Shipping Weight::** 4 - 1 gallon - 45 lbs. (20.4 kg)  
5 gallon - 56 lbs. (25.4 kg)

877 (05/07)  
Ad Stock #66005B

\*CHROMA-CHEM is a Registered Trademark of Degussa GmbH.



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