

# LIFE™

## Product Specifications



### LD2003 Clear Gloss, LD2004 Clear Satin, LD2005 Pigmented Gloss Chemical Resistant Urethane **CRU**

*(for professional use only)*

**Description:** The LD CRU 2000 Series products are two component aliphatic polyester polyurethanes designed as UV resistant, and mar resistant, and chemical resistant finish coats for cementitious floors and floor coating systems

**Uses:**

- ✓ Concrete Floors
- ✓ Petrochemical Plants
- ✓ Aircraft Hanger Decks
- ✓ Milling & Mining Areas
- ✓ Steel Structures & Bridges
- ✓ Food Processing Facilities
- ✓ Water Treatment Plants

**Advantages:**

- ✓ Superior U.V. Resistance
- ✓ Chemical Resistant
- ✓ Excellent Gloss Retention
- ✓ Impact & Abrasion Resistant

**Coverage:** 300-400 sq.ft. per gallon on a smooth surface and between 200-300 sq. ft. per gallon on a rough surface.

**Drying Time:** Allow 12 hours before recoating. Foot traffic may be permitted after 24 hours. Allow 72 hours for vehicle traffic and before placing heavy objects on the surface.

**Packaging:** 1 gallon kits

**Inspection:** Surface must be structurally sound, dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion.

**Surface Preparation:** Surface must be dry and free of oil, grease, curing agents, dirt, dust, or other foreign material. New concrete must be at least 28 days old.



**Mixing:** In a clean, dry container, blend equal volumes (1:1) of Isocyanate (Part A) with Resin (Part B). Mix thoroughly for approximately 5 minutes using a low speed drill mixer. The material may be rolled or brushed. Neatly cut-in all edges with a brush and roll the center using a 1/4" nap roller for smooth surfaces and a 1/2" nap for rough surfaces. Be sure to spread evenly in a "V" pattern, rolling in both directions. Roll product as thin as possible. Avoid puddling, as material will turn white and bubble. Brush all puddles and expansion joints to avoid this problem. Keep all moisture away for first 48 hours (i.e. sprinklers).

**Primer Application:** For best results prime the surface using Life Deck Epoxy Primer (see primer specification sheets for more details).

**Coating Application:** The material may be sprayed, rolled or brushed. When the Life Deck Epoxy Primer is used, apply the Life Deck CRU within 24 hours of the primer's application. Immediately after mixing the combining A&B components, spread a strip of the CRU mixture onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a 1/4" Mohair/shed resistant roller cover. If a second coat is desired, allow coating to dry for 12 hours before application. Adverse conditions may retard curing and delay the recoating. Consult a manufacture representative regarding spray application.

**Limitations:** Do not apply when ambient or surface temperatures are below 45°F or above 95°F. Do not apply thicker than 300 square feet per gallon on a smooth surface. Do not apply thicker than 250 square feet per gallon on a rough surface. Do not apply if rain is in the near forecast (48 hours). Rain may cause CRU to whiten after new application.

**WARNING:** Do not use on wood or any painted surface.

**Clean Up:** Uncured material can be removed with acetone or similar solvent.

**PROTECTIVE EQUIPMENT**

**Respiratory:** Avoid breathing vapors or spray mist. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC 23C or equivalent) or leave the area.

**For Fire:** CO<sub>2</sub> - Dry Chemical Foam. Use water spray for large fires.

**Inhalation:** If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Call a physician.

**Eye Contact:** In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention immediately.

**Skin Contact:** Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops. Remove contaminated clothing and wash skin with plenty of soap and water. Wash clothing before wearing again.

**CAUTION: This product will make the surface more slippery.**

Keep container closed when not in use. For prolonged storage, turn can upside down. Do not use or store without examining material compatibilities.

**Technical Data**

	<u>Test Method</u>	<u>Clear Gloss</u>	<u>Pigmented Gloss</u>
Shelf Life		6 months	6 months
Mixing Ratio by Volume A:B		1-2	1:2
Dry Film Thickness per Coat	ASTM D-3363	3-5 mils	3-5 mils
Hardness		3H	3H
Tear Resistance DieC	ASTM D-1004-66	270 pli	245 pli
Tensile Strength	ASTM D-412	3980 psi	3182 psi
Ultimate Elongation	ASTM D-412	60%	30%
Gloss (60°)	ASTM D-823	90%	90%
Viscosity at 75°F(24°C) 50% RH	A-SIDE	210 cps	210 cps
	B-SIDE	1170 cps	1800 cps
Weight	A-SIDE	8.75 lbs/gal	8.75 lbs/gal
	B-SIDE	8.92 lbs/gal	11.75 lbs/gal
Flash Point	A-SIDE	109°F	109°F
	B-SIDE	122°F	122°F
Volume Solids	ASTM D-2697	63%	73%
Maximum VOC grams per liter	ASTM D 2369-81	250	250
Pot Life (75°±3°F)		0.5 hrs	0.5 hrs

This product contains chemicals known to the State of California to cause cancer, birth defects and reproductive harm. 100 grams/liter is the maximum V.O.C. of the A and B mixture of this product. **WARNING!** If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC.** These products and their mixture are flammable liquids. Keep away from open flames or sparks. See the material safety data sheets for proper handling instructions. Contact the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).