



Product Information

LD2007

Waterbased Chemical Resistant Urethane

Description

Life Deck Waterbased CRU is a two component, high solids, water base, aliphatic polyurethane. The UV resistant, mar resistant, chemical resistant nature of this product will cause it to outperform most other types of sealers or topcoats without the unwanted smell of solvents. It is available in a 6 hour cure formula.

Uses

Life Deck Waterbased CRU is designed for professional use only and is specified as the finish coat for use in moderate to severe chemical environments or in heavy traffic areas. Apply Waterbased CRU as a coating over Life Deck water base and 100% solids epoxy primers as well as over all of our epoxy floor coatings. CRU is also used as a sealer on a variety of other substrates such as plain concrete, Texture Crete and Acid Stained Concrete Flooring. Use Waterbased CRU on Industrial Floors, Garage Floors, Decorative Floors, Restaurant Floors, Food Processing Facilities, Automotive Service Areas.

Advantages

- VOC Compliant
- Chemical Resistant
- Color and Gloss Retention
- Impact & Abrasion Resistant
- No Solvent Smell
- Water based formula

Coverage

275-325 sf per gal as a coating
400-450 sf per gal as sealer (thin w/extra water)

Packaging

1½ gallon kits premeasured with Hardener A in ½ gallon and Resin B in 1 gallon cans
15 gallon kits premeasured in three 5 gallon pails

Colors

Clear Gloss, Clear Satin, Travatan, Sandy Beige, Deep Tan, Cape Cod Grey, Pewter Grey, White, Black and Tile Red, Stone Grey, Arizona Tan

Inspection

Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be at least 2500 psi and feel like 50 grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 28 days cured is required on all concrete. A moisture test using a plastic mat should be conducted to verify the surface is dry.

Surface Preparation

Over Concrete: Shotblasting is the preferred method for preparing concrete when applying epoxy and urethane floor systems. When using other methods prepare the

surface so that the surface is porous and contaminant free so the product can soak in and properly bond.

As a sealer over concrete: When applying Waterbased CRU directly over concrete as a clear sealer, the surface may be lightly abraded. Make sure no contaminants or prior sealers are present.

Over Epoxy or CRU: Apply directly over new epoxy or Urethane within 24 hours of initial application. When applying over existing epoxy or CRU that has been cured for longer than 24 hours, sand the surface with 100 grit sand paper, remove debris and wipe with acetone just before new application.

Mixing

As Coating over Concrete, Epoxy, or CRU: Before application, Life Deck Waterbased CRU A-Side and B-Side should be pre-mixed in their individual containers. Add 1 part of the A-Side to 2 parts of the B-Side while mixing, using a mechanical mixer (Jiffy Mixer) at low to medium speeds. For proper leveling purposes, add one quart of water (17%) to 1½ gallon mix. Mix until a homogeneous mixture and streak-free appearance is attained (approximately 3 minutes). Use care to scrape the sides of the container to ensure that no unmixed material remains.

As a sealer over concrete: When applying as a clear sealer directly on concrete, acrylic cement, or acid stained concrete, it is recommended to thin the CRU with a **maximum total** of ½ gallon water per 1½ gallon kit. Thinning will aid in penetration, help avoid puddles and help avoid bubbles and unevenness. Make sure to properly neutralize floor if acid stained.

Application

The Waterbased CRU material may be squeegeed, rolled or brushed. Apply product within 24 hours after previous coating is applied. Immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush or trowel. Leave remaining material in bucket and spread evenly using a 3/8" non-shedding nap roller cover beginning near the cut in area. Apply quickly and avoid overrolling, as product will begin to "tack-up" as it begins to cure.

Re-coat if needed **within** 24 hours of application to insure adhesion. If a delay occurs, it is recommended that the surface be sanded and wiped clean with acetone before reapplication.

Maintenance:

Cleaning the CRU is best done by mopping surface with mild soap and water or a mild detergent. For best appearance, we recommend resealing the surface every 3-4 years. Reseal by lightly sanding existing coating, cleaning surface, and applying CRU over dry surface using above application specifications

Clean Up

Equipment should be cleaned with environmentally safe solvent immediately after use.

Limitations

- Do not apply in temperatures below 50°F or above 90°F.

- Do not apply unless temperature is 5° above the dew point or if rain is expected within 24 hours.
- Do not apply on damp or moist surface as it will whiten or may cause delamination.
- Opened material must be used within 2 days.
- 1 gallon must cover at least 275 sf to properly cure.
- Please read MSDS sheet before use.

Technical Data

	Test Method	Results
Shelf Life		6 months
Mixing Ratio by Volume A:B		1:2
Dry Film Thickness per Coat:		3-5 mils
Tear Resistance DleC	ASTM D-3363	270 pli
Tensile Strength	ASTM D-1004-66	3980 psi
Ultimate Elongation	ASTM D-412	60%
Gloss (60 deg)	ASTM D-412	90
Volume Solids	ASTM D-823	52% by volume
VOC	ASTM D-2697	<50 g/l
Pot Life (75±30F)	ASTM D 2369-81	60 minutes
Recoat Time		7 hrs (min) -24 hrs (max)
Taber Abrasion	ASTM D-4060-84	33.9 mg Loss, C17 Wheel, 1000g Load, 1000 Cycles
Impact Resistance	ASTM D-2794-84	Inch-pounds Direct 160 Reverse 160
Pencil Hardness	ASTM D-3363-84	2-H
Viscosity at 75 F(24 C) 50% RH		A-SIDE 600 cps B-SIDE 1500 cps
Weight		A-SIDE 9.4 lbs/gal B-SIDE 9.3 lbs/gal
Flash Point		A-SIDE <365 F B-SIDE n/a
MEK Resistance		No effect after 100 rubs
Chemical and Solvent Resistance (4 Hour Spot Test, Covered)		
Skydrol B-4		No Effect
Hydraulic Fluid #83282		No Effect
14% Nitric Acid		NO EFFECT
10% Hydrochloric Acid		NO EFFECT
50% Sulfuric Acid		Stain
50% Sodium Hydroxide		No Effect
10% Acetic Acid		No Effect
MEK		NO EFFECT
Xylene		No Effect
40 Day Test Covered		
Skydrol B-4		No Effect
Hydraulic Fluid #83282		No Effect