# **Dek-Shell**



## 1-Part Moisture Cured Aliphatic Urethane

Gloss Finish • 6850

## **Product Description**

Dek-Shell 1-Part Moisture Cured Aliphatic Urethane Enamel is a high gloss, high performance industrial coating, specially formulated to provide outstanding durability and unsurpassed chemical resistance in a variety of interior and exterior commercial and industrial environments. Its special formulation provides excellent alkali, acid, solvent and salt spray resistance. It provides excellent hardness, durability, resistance to abrasion and impact abuse. It is an excellent high gloss finish can be applied direct to concrete or as a clear coat over a color chip epoxy floor system.

Recommended Substrates     Properly prepared concrete floors     Epoxy color chip decorative floor systems     Showrooms, warehouses, laboratories, cafeterias or any floor requiring additional chemical and abrasion resistance.					<b>Product Data</b> Product Type:	Moisture	Moisture Cured Aliphatic Urethane			
							Finish Co	at.	Chin Tio Coat	
					Gloss @60°:		70+	al	Chip Tie Coat 70+	
Product Features					dio33@00 .		70 '		70.	
	•	c urethane formula		Wt Solids ±2%:		65%		65%		
Impact & abrasion resistant     Coad IIV stability					Vol Solids ±2%:		60%		60%	
<ul> <li>Good UV stability</li> <li>Solvent and chemical resistant</li> </ul>					Wet Film Mils:		4.0 - 5.3		6.4 - 8.0	
Direct to properly prepared concrete					Dry Film Mils:		2.4 - 3.2		3.8 - 4.8	
Product Limitations					Coverage / Gal *		300 - 400	)	200 - 250	
This product is for use on properly prepared floors and above grade vertical					* coverage and wet and dry millage will vary by substrate type and porosity.					
substrates.  • Do not apply if air, product & substrate temperature is <50° or >100° F.  • Expect longer dry times at lower temperatures & low relative humidity  • Clarity of color may be affected by high humidity, low temperatures,					VOC gms p/L**:	<329	bounded type and	<329		
					** less exempt solvent	ς	323		323	
					Viscosity KU ±5:		82		82	
chemical exposure or exposure to lighting such as sodium vapor lights.					Dry time @ 50% RH***:		4-7 HRS to touch			
A moisture barrier is required when applied on grade.						9-13 HRS to recoat 3-5 Days full cure				
Always test floor cleaners for ill effects before widespread use.										
pplication: Brush or 3/8" shed resistant roller >109°F					*** dry times, pot life & recoat times listed may vary according to the relative humidity, temperature, film build, color and air movement of the application environment					
Clean Up: Xylene					Pot Life 3 - 5 HRS @ 70°F & 50% Relative Humidity					
					Recoat Window	9 - 13 HRS****				
Available bases   6850: Clear Finish					**** after 24 hours the product must be scuff sanded with 220 grit sandpaper and solver					
Compliance					cleaned with xylene bef	fore re-coating.				
This products is VOC compliant based on limits provided by the EPA and OTC.					Shelf Life		Six (6) months unopened containers 3-14 days, opened, will thicken and seed			
Horizontal Traffic Types:					Return to Service Time Chart ^ @ 70°F & 50% Relative Humidity					
Light Foot Traffic	Υ	Vehicular Traffic		Υ	Light Foot Traffic	9-13 HRS	Vehicular T	raffic	5 Days	
Heavy Foot Traffic	Υ	Forklift		Υ	Heavy Foot Traffic	24 HRS	Forklift		5 Days	
Steel Wheel Carts	Υ	Heavy Vehicle &	Equipment	Υ	Steel Wheel Carts	3 Days		icle & Equipme		
					^May vary by relative humid	lity, temperature, f	ilm build, color &	air movement of the	application environment.	
Chemical Resistance Chart Y = Resistant N = Not Recommended S = Splash / Spillage					Performance Testing Data					
Acetic Acid 5% Animal Urine Bleach Brake Fluid Calcium Chloride Ethylene Glycol	, , , , ,	Gasoline Hydrochloric Acid 10% Isopropyl Alcohol Methyl Ethyl Ketone Motor Oil Nitric Acid 20%	Y Sulfuric A Y Trisodium S Xylene Y	lydroxide 50% Y cid 10% Y n Phosphate Y Y	Abrasion Resistance A Adhesion ASTM D3359 Flexibility ASTM D522, Impact Resistance Gar Hardness	) , 180° bend, 1/8" r			eles, 4.4 mg loss concrete failure	



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#### **Surface Preparation:**

Sweep the floor to remove all excess dirt and debris. Any grease or oil spots should be cleaned first with a degreaser type cleaner. Clean the floor a section at a time (10' x 10') with a strong detergent using a stiff broom to scrub the surface. Thoroughly rinse with a hose and allow floor to dry completely. If necessary, use a squeegee to remove any standing water.

**Bare Concrete:** All new concrete and masonry substrates should be at least 30 days old before painting! Test the floor for the presence of a sealer by sprinkling water onto several areas of the floor. If the water beads and does not soak in, a sealer is present and must be removed with a chemical paint stripper, a concrete floor sander, or shot blasting. All bare concrete floors should be etched with a 10% solution of Muriatic Acid. To etch the floor, use a mixture of one (1) part Muriatic Acid mixed with four (4) parts water. Be sure to wear personal protection gear (goggles, gloves, boots, etc.) and follow the manufacturer's instructions and safety precautions when working with Muriatic Acid. Working in sections (10' x 10'), apply a generous amount of the acid solution with a plastic sprinkling can, and allow the solution to effervesce until it stops reacting. Rinse the surface thoroughly with a garden hose, not allowing the acid to dry on the surface. This process should create a surface texture similar to that of 180 grit sandpaper, or the etching process must be repeated. Allow the floor to dry for at least 24 hours. Before painting, test the floor for excessive moisture by applying a 2' x 2' sheet of plastic to the floor with duct tape and allow it to set for 24 hours. If water droplets appear on the underside of the plastic, or the concrete appears wet (darker in color), the moisture content of the floor is too high and should not be painted.

**Previously Painted Floors:** Remove any loose, cracked or peeling paint by hand scraping, sanding, wire brushing, or by power tool cleaning. Any glossy surface areas should be sanded to dull the finish. Cracks, holes, and damaged concrete must be filled with a suitable concrete based patching material, carefully following the manufacturer's instructions. Test the adhesion of the remaining paint by cutting an X in the paint with a single edge razor blade. Apply a 5" piece of duct tape firmly over the X. Remove the tape with one quick pull. If more than 25% of the paint comes off with the tape, the old coating must be completely removed. Do not acid etch previously painted floors. Test the floor for moisture as previously outlined before painting.

**Mildew:** Surface areas affected by mildew should be treated with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water and allow a minimum of 24 hours to dry thoroughly.

#### **Directions for Use:**

Mixing Instructions: This product is ready to use, DO NOT THIN. Before using, stir well, but avoid whipping air into the coating as this will cause excessive bubbles in the film.

**Application:** Properly prime the substrate. Apply when surface, product and ambient temperatures are above 55° F and below 100° F; and relative humidity is <85%. Avoid paint application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint. Always paint to a natural break in the surface, such as a corner or edge. Maintain a wet edge during application by brushing or rolling into previously applied coating area. Too thick of an application or application to a damp surface may cause product failure. Always apply a test patch before overcoating the primer to determine suitability and compatibility. Because the product is applied as a very thin protective coating, some environments that are dusty, may deposit dust particles on the surface that could be visibly seen.

**Recoating:** Always test before recoating or top-coating. Test by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat can be started. Colder temperatures will require more cure time for the product before recoating can commence. Before recoating or top-coating, check the coating to insure no contaminants exist; such as an epoxy blush. If necessary, clean the surface prior to recoating with a standard type detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes. After 24 hours, degloss the previous coat to insure a trouble-free bond.

**Clean Up:** Minor spills, painting tools and spray equipment should be immediately with MEK. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

### SAFETY - KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY! USE WITH ADEQUATE VENTILATION!

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact 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 USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

**HAZARD STATEMENTS: DANGER!** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

HAZARD STATEMENTS: WARNING! Flammable liquid and vapor. May cause respiratory irritation. May cause damage to organs (auditory) through prolonged or repeated exposure. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Read label before use. Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING! Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wear respiratory protection. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and clothing to prevent skin contact. Avoid release to the environment.

FIRST AID: IF ON SKIN: Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower with plenty of soap and water. IF SKIN irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.

IN CASE OF FIRE: Use foam, alcohol foam, CO2, or dry chemical for extinction.

STORAGE: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

### **Storage and Disposal**

Product should be kept from freezing temperatures and stored in a cool dry location. Refer to your local city or county government for instructions on disposal options.

Florida Paints believes the technical data represented in this technical bulletin to be current and up to date. However, Florida Paints makes no warranties or guarantees either expressed or implied. Florida Paints claims no responsibility from damages incurred from use by either the purchaser or user of the product.

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