

Dek-Thane



Dek-Thane
High Solids Aliphatic Urethane

Gloss Finish • **6840**

Product Description

Dek-Thane High Solids Aliphatic Urethane is a high gloss, high performance, industrial, two (2) component polyester/aliphatic urethane coating, specially formulated to provide outstanding durability, abrasion resistance, flexibility, weathering and unsurpassed chemical resistance for a variety of high performance floor projects. Ideal for garages, warehouses, airplane hangars, auto shops, maintenance rooms, kennels and other floors that require a UV stable floor coating.

Recommended Substrates

- Properly prepared concrete floors
- Epoxy color chip decorative floor systems
- Showrooms, warehouses, laboratories, cafeterias, airplane hangars or any floor requiring additional chemical and abrasion resistance.

Product Features

- 2-part polyester/aliphatic urethane formula
- Impact & abrasion resistant
- Excellent UV stability
- Solvent and chemical resistant

Product Limitations

- For use on properly prepared floors.
- Do not apply if air, product & substrate temperature is <55° or >90° F.
- Not recommended for exterior use; as accelerated chalking & fading will occur.
- Expect longer dry times at lower temperatures & low relative humidity
- This product is not color stable and may be affected by high humidity, low temperatures, chemical exposure or exposure to lighting such as sodium vapor lights.
- A moisture barrier is required when applied on grade.
- High performance (soft) tires may stain finish (plasticizer migration)
- Always test floor cleaners for ill effects before widespread use.

Application: Squeegee, brush or roller
Flash Point: >140°F Combustible
Clean Up: Methyl Ethyl Ketone (MEK)
Available Colors | 6840 *White
Available Colors | 6841 *Tan
Available Colors | 6842 *Light Gray
Available Colors | 6843 *Medium Gray
Available Colors | 6848 Clear
 * Special order and custom colors are available (50 GAL)
Packaging Information: 3 Gallon Kits
 15 Gallon Kits *Special order only

Compliance

These products are VOC compliant based on limits provided by the EPA.

Product Data

Product Type: **Polyester/Aliphatic Urethane**

6840

Gloss @60°: >80

Wt Solids ±2%: 60%

Vol Solids ±2%: 53%

Wet Film Mil: 5.6 - 3.8

Dry Film Mil: 2.0 - 3.0

Coverage / Gal * 285 - 425

* coverage and wet and dry millage will vary by substrate type and porosity.

VOC gms p/L **: <448

** less exempt solvents and before the addition of colorant

Viscosity KU ±5: 83

Dry time @ 50% RH ***: 2 - 4 HRS to touch

4 - 8 HRS to recoat

14 - 24 HRS for light foot traffic

5 Days full cure

*** 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

Induction Time None

Pot Life 2 - 5 HRS @ 77°F & 50% Relative Humidity

Recoat Window 24 HRS ****

**** >24 hours, product must be scuff sanded with 220 grit sandpaper before re-coating

Shelf Life One (1) year in unopened containers

Horizontal Traffic Types:

Light Foot Traffic	Y	Vehicular Traffic	Y
Heavy Foot Traffic	Y	Forklift	Y
Steel Wheel Carts	Y*	Heavy Vehicle & Equipment	Y

*Under 2000 pounds

Chemical Resistance Chart

	Y = Resistant	N = Not Recommended	S = Splash / Spillage		
Acetic Acid 5%	S	Butanol Alcohol	S	Motor Oil	Y
Animal Urine	Y	Ethyl Alcohol	S*	Skydrol	S*
Antifreeze	Y	Gasoline	S*	Sodium Hydroxide 10%	Y
Bleach	Y	Hydrochloric Acid 10%	S*	Sulphuric Acid 10%	S*
Brake Fluid	S*	Methyl Ethyl Ketone	S*	Xylene	Y

*May stain unless promptly removed

Return to Service Time Chart

@ 70°F & 50% Relative Humidity

Light Foot Traffic	24 HRS	Vehicular Traffic	5 Days
Heavy Foot Traffic	3 Days	Forklift	5 Days
Steel Wheel Carts	3 Days	Heavy Vehicle & Equipment	5 Days

*May vary by relative humidity, temperature, film build, color & air movement of the application environment.

Performance Testing Data

Abrasion Resistance	ASTM D2486	CS-17, 1000 g, 500 cycles, 20 mg loss
Adhesion	ASTM D4541	360 PSI - concrete failure
Flexibility	ASTM D522	Pass - 1/8" mandrel
Hardness (Shore D)	ASTM D2240	72
Impact Resistance	D5420	Pass - direct & reverse 160 in. lbs.

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Surface Preparation:

Sweep the floor to remove all excess dirt and debris. Any wax, grease or oil must be removed 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.

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.

Previously Painted & Bare Concrete: All existing coatings, laitance, curing compounds, and bond breakers must be removed via shot blasting, scarifying or diamond grinding and provide a suitable profile in accordance with ICRI CSP-2 to CSP-3 or the required profile for epoxy basecoat for chip/flake floors. Abrasive blasting or grinding is to leave the concrete in a uniform texture, over-blasting will result in reduced coverage rates of subsequent coats of primer and finish. Sweep and vacuum any remaining dust, dirt or contaminants with a wet/dry vacuum. All dirt, foreign contaminants, and laitance must be removed to assure a trouble-free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbanding.

Directions and Tools Required: Spiked shoes, smooth or notched squeegee, 3/8" solvent resistant rollers, wet mil thickness gauge, porcupine or spike roller. See Florida Paints Floor Coatings Application Guide for additional details on application tools and methodologies.

Priming: Prime concrete with approved epoxy primer before applying this product or approved epoxy basecoat for chip/flake floors. If a primer is not used, more porous substrates may cause out-gassing and surface defects.

Mixing Instructions: This product has a mix ratio of 21.0# part A (17.5# for clear) to 8.75# part B by weight and 2 : 1 by volume. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Take care not to whip air bubbles when mixing as the bubbles will be difficult to remove once product is applied to the concrete floor. Improper mixing may result in product failure. Do not leave pail upside down onto floor as unmixed A & B may drain onto the floor, creating a spot that will not cure. Do not re-use containers as there will be material left in the can that will re-wet with new product and cause curing issues. This product has a **short usable pot life of about 2-5 hours** which is substantially shorter than the actual gel time for the product. Applying the product beyond the usable pot life can result in surface irregularities.

Neither Component Will Work Unless Mixed With The Other! Do not re-use containers that have been converted or mix with previously catalyzed material.

Application: Apply when surface, product and ambient temperatures are above 55° F and below 90° 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. This product is only intended for use in or over an aggregate broadcasted system or a troweled decorative quartz system. The product can be used as a topcoat to seal in the broadcasted sand base or quartz troweled base for the final coat. Always paint to a natural break in the surface, such as a corner or edge and working towards the exit. Pour epoxy from the mixing container in a ribbon and spread with a squeegee and immediately backroll to 10.0 - 64.0 mils thickness. Ensure that coating is bubble and pinhole free; if substrate condition over aggressive mixing causes air entrapment, then a porcupine or spike roller should be used prior to the coating tacking off to remove the air entrapped in the coating. This product can be used with a variety of quartz, colored sand or metal or vinyl chips to create a desired look or pattern. **DO NOT THIN:** Mix thoroughly and apply as it comes from the container. Thinning is not necessary.

Broadcast: See Florida Paints Epoxy Application Guide for details on application methodologies.

Recoating: This material can be applied in multiple broadcast layers to increase build or can also be used as the final topcoat to seal in the aggregate filled base system. If a topcoat is to be applied, stay within the recoat window or the surface will have to be sanded or screened to create a mild profile. Check the coating to be sure it has tacked off and that no epoxy blushes were developed (a whitish greasy film or deglossing). If blushing is present, it must be removed with warm soapy water and abrasive pad or xylene. If topcoating a vinyl chip floor, screen the floor to knock off the tips of the chips to ensure a smooth and even surface.

Clean Up: Minor spills, painting tools and spray equipment should be immediately with xylene. 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:

CAUTION: Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. **USE WITH ADEQUATE VENTILATION!** Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety glasses, goggles or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

CAUTION! There is the potential to release lead dust if you sand scrape or remove old paint. Lead is toxic and exposure to lead dust particles can cause serious illness including brain damage especially in children. Pregnant women should avoid exposure. If adequate ventilation is not possible, wear a NIOSH approved respirator to avoid inhalation of the particles and wear clothing designed to prevent skin contact. Clean up carefully with a HEPA vacuum and a wet mop. Before starting your project, you can find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or visit their website at www.epa.gov/lead.

DO NOT TAKE INTERNALLY! FIRST AID: In case of skin contact, wash thoroughly with appropriate cleaning solvent followed by plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes, SEEK IMMEDIATE MEDICAL ATTENTION! If affected by inhalation, move immediately to fresh air. If swallowed, DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION!

Storage and Disposal

Product should be kept from freezing temperatures or temperatures above 95°F. 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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