

Dek-Kote



Low VOC Waterborne 2-Part Clear Polyurethane

Satin Finish • **6320**
* Gloss Finish • **6350**

Product Description

Dek-Kote Low VOC Waterborne Clear Polyurethane is a two-component acrylic polyurethane formulated as a non-yellowing coating for concrete, concrete overlays, as a topcoat on epoxy floor systems as well as a UV stable topcoat for exterior vertical wall substrates. It is available in a satin and gloss finish that provides the durability of a solvent based system, but in a waterborne low VOC formulation. It has excellent UV stability, durability, scratch and chemical resistance as well as anti-graffiti properties. In addition, unlike most polyurethanes, it has remarkable water vapor permeability; allowing for use in interior and exterior settings.

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

- Two part, low VOC, waterborne acrylic polyurethane formula
- Impact & abrasion resistant
- Good UV stability
- Solvent and chemical resistant
- Goes on milky white, dries clear

Product Limitations

- For use on properly prepared floors and above grade vertical substrates.
- Do not apply if air, product & substrate temperature is <50° or >90° F.
- Expect longer dry times at lower temperatures & low relative humidity
- Clarity of color 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:	Brush or 3/8" shed resistant roller
Flash Point:	Non-flammable >200°F
Clean Up:	Warm soapy water
Available bases 6320:	Clear Satin Finish
Available bases 6350:	Clear Gloss Finish *Special Order

Compliance

This products is VOC compliant based on limits provided by CARB, MPI GPS-1 & GPS-2, EPA, LEEDv4 and OTC.

Product Data

Product Type:	Acrylic Polyurethane		
	6320	6350	Chip Tie Coat
Gloss @60° :	90+	10 - 20	see sheens
Wt Solids ±2%:	57%	57%	57%
Vol Solids ±2%:	53%	53%	53%
Wet Film Mills:	4.0 - 5.3	4.0 - 5.3	6.4 - 8.0
Dry Film Mills:	2.1 - 2.8	2.0 - 2.7	3.4 - 4.3
Coverage / Gal *	300 - 400	300 - 400	200 - 250
* coverage and wet and dry millage will vary by substrate type and porosity.			
VOC gms p/L**:	<72	<72	<72
** less exempt solvents			
Viscosity KU ±5:	<33	<33	<33
Dry time @ 50% RH***:	6 - 8 HRS to touch		
	8 - 12 HRS to recoat & no longer tacky		
	5 - 7 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			
Pot Life	30 MIN @ 70°F & 50% Relative Humidity		
Recoat Window	48 HRS****		
**** after 48 hours the product must be scuff sanded with 100 grit sandpaper and solvent cleaned with acetone or denatured alcohol before re-coating.			
Shelf Life	Twelve (12) months unopened containers		

Horizontal Traffic Types:

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

Return to Service Time Chart ^

@ 70°F & 50% Relative Humidity

Light Foot Traffic	24 HRS	Vehicular Traffic	5 - 7 Days
Heavy Foot Traffic	3 Days	Forklift	7 Days
Steel Wheel Carts	N/A	Heavy Vehicle & Equipment	7 Days

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

Chemical Resistance Chart - 24 Hour Exposure

Y = Resistant N = Not Recommended S = Splash / Spillage

Animal Urine	Y	Hydrochloric Acid 5%	Y	Skydrol	S*
Ammonia	Y	Isopropyl Alcohol	Y	Sodium Hydroxide 5%	Y
Brake Fluid	S*	Kerosene	Y	Sulfuric Acid 5%	Y
Diesel Fuel	Y	Methyl Ethyl Ketone	N	Xylene	S*
Ethanol	S	Mineral Spirits	Y		
Gasoline	Y	Nitric Acid 5%	Y	*stain/soften unless promptly removed	

Performance Testing Data

Abrasion Resistance ASTM D2486	1000g, 1000 cycles, 1.5-2.5 mg loss
Adhesion ASTM D3359	Pass, 5B
Flexibility ASTM D522, 180° bend, 1/8" mandrel	Pass
Impact Resistance D5420 - direct & reverse 160 in. Lb.	Pass
Pencil Hardness ASTM D4366	3H

PDS 6320-50 1812



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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. Cement based concrete overlays typically must cure 2-3 days before coating, no additional surface preparation other than light cleaning is required.

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 diamond grinder 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 80-180 grit sandpaper (CSP-1/CSP-2), 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 in accordance with ASTM D4263. 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. An ASTM F1869 Calcium Chloride test can be performed and must have less than 8 lbs./1000 ft² over 24 hours.

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.

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:

Planning & Protection: Wear appropriate PPE (personal protective equipment) with adequate ventilation and NIOSH approved respirator. Protect all areas not to be painted, as this product will stick to most surfaces. Map out coverage rates and room size to stage each kit to ensure a wet edge is maintained for optimal finish.

Mixing Instructions: This product has a 3 parts A to 1 part B mixing ratio with per-measured quart to short filled gallon kits. Add one part B to 3 parts A and mechanically mix with a Jiffy style mixer for 3 minutes at medium speed, take care not to whip air bubbles in coating. After the product is catalyzed and mixed, the product can be thinned up to 20% (25oz per gal) for improved workability. Transfer mixed coating into an appropriately sized roller pan or pail with roller grid. 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.

Application: Properly prime the substrate. Apply when surface, product and ambient temperatures are above 50° 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.

Roller: premium quality, 3/8" shed-resistant cover with phenolic core. "De-fuzz" roller by wrapping tightly with then removing masking tape. Saturate roller and remove excess product to prevent excessive dripping. Any drips must be rolled out. Before roller begins to dry out, become tacky or "pull," backroll the same area. Thin coats are imperative. 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. This product goes on milky white and dries clear.

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. When recoating this product, it is advisable to apply the recoat before 48 hours passes. After 48 hours, degloss the previous coat with 100 grit sanding screen or black abrasive pad and solvent clean with acetone or denatured alcohol to insure a trouble free bond.

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

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