

DuraCrete Decorative Concrete Overlay System

White Overlay • **DURACRETEWHITE**
Grey Overlay • **DURACRETEGREY**

Product Description

TropiCrete DuraCrete is a resin inclusive, Portland cement and sand overlay system for decorating or repairing most horizontal concrete surfaces. Just add water and TropiCrete DuraCrete can be used to decorate or repair most concrete swimming pool decks as well as walkways and patios. TropiCrete DuraCrete provides a very durable, decorative finish; it maintains outstanding color integrity and is very maintenance friendly. TropiCrete DuraCrete can be used to produce countless patterns and designs and can also be top coated in a variety of colors. TropiCrete DuraCrete is designed for use in residential, architectural, commercial and light industrial applications on a variety of properly prepared new and existing concrete surfaces. TropiCrete DuraCrete has the ability to withstand light vehicle and pedestrian traffic.

Recommended Substrates

- New & existing properly prepared concrete floors
- Patios, pool decks, concrete driveways, floors & walkways

Product Features

- Compressive strength ASTM C190, 28 days, 3900 psi
- Flexural strength 28 days, 890 psi
- Tensile strength 28 days, 428 psi
- Durable finish
- Resistant to mildew and organic growth
- Outstanding adhesion properties

Product Limitations

- Do not apply if air, product & substrate temperature is <50 or >100° F. Expect longer dry times at lower temperatures & higher relative humidity.
- Not for immersion service, must achieve adequate surface profile
- Do not apply over existing coatings, all existing coatings must be removed.
- Do not use dirty water, containers or rusty tools.
- Do not apply the mixed material until the false set time is achieved.
- Do not use TropiCrete 6085 Retarder and 6086 Accelerator in combination.
- Topcoat will determine horizontal traffic limitations.

Application: Hopper gun, hand trowel or squeegee
Flash Point: Non-Flammable >200°F
Clean Up: Warm soapy water
Available bases | White
Available bases | Grey

Product Data

Product Type: **Acrylic / Portland Cement**

Gloss @60°: **DURACRETE**
1 - 5

Wt Solids ±2%: N/A
Vol Solids ±2%: N/A
Wet Film Mils: N/A
Dry Film Mils: N/A
Coverage / 50# Bag * 100 - 150

* applied at 1/4" thickness; coverage will vary by substrate condition, surface profile and applied thickness.

VOC gms p/L **: <50

** less exempt solvents and before the addition of colorant

Viscosity KU ±5: N/A

Dry time @ 50% RH***: 1-2 HRS to touch
8-12 HRS to recoat / light foot traffic
7 days for light vehicular traffic

False Set Time 5-10 Min @ 77°F & 50% Relative Humidity

*** dry times, set times & recoat times listed may vary according to the relative humidity, temperature, applied thickness and air movement of the application environment.

Horizontal Traffic Types:

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

Return to Service Time Chart ^

@ 77°F & 50% Relative Humidity

Light Foot Traffic	8-12 HRS	Light Vehicular Traffic	7 Days
Heavy Foot Traffic	1 Days	Forklift	N/A
Steel Wheel Carts	N/A	Heavy Vehicle & Equipment	N/A

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

Minimum Recommended Top Coats by Horizontal Traffic Type*

Light Foot Traffic	6020 TropiCrete Premium 100% Acrylic Deck Coating	
Heavy Foot Traffic	8720 TropiCrete Floor-Tred Acrylic Urethane	
Steel Wheel Carts	6920 TropiCrete Color & Seal Solvent-Based Sealer	6540 TropiCrete Interior Waterborne 2-Part Epoxy Floor Coating**
Light Vehicular Traffic	6920 TropiCrete Color & Seal Solvent-Based Sealer	6850 Dek-Shell 1-Part Moisture Cured Clear Aliphatic Urethane Gloss
	5140 Sundeavor 2-Part Aliphatic Urethane Gloss	

* Or approved equal

** Interior use only

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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.

Surface Preparation: TropiCrete DuraDek is a decorative finish material for use over hard, sound and clean concrete (It will not correct bad concrete). Clean area and remove all unsound concrete, grease, oil, paint, and any other foreign materials that will inhibit performance. The minimum concrete surface profile (CSP) must be CSP 1-3, in accordance with ICRI standards. Follow the procedures given below or referenced in these or other applicable industry standards:

ASTM D 4258 - Practice for Surface Cleaning Concrete for Coating
ASTM D 4620 - Practice for Acid Etching Concrete.

ASTM D 4259 - Practice for Abrading Concrete
ICRI #03732 - Selecting & Specifying Surface Preparation for Sealers, Coatings & Polymer Overlays

Test Patch: It is recommended that a test patch be made on a small section if unfamiliar with surface or product. Examine the patch after several days to determine if a good bond has been obtained. Before application, saturate the substrate with water to a SSD (saturated surface dry) condition. Very porous concrete surfaces will require several applications of water to insure complete saturation. Repair or replace all rusted reinforcing steel, spalled, cracked and deteriorated concrete before applying TropiCrete DuraDek.

Mixing Procedure and Equipment:

A 1/2" mortar mixer and a mixing paddle with a 5 gallon pail are sufficient. The 1/2" mortar mixer must be a slow or variable speed mortar mixer to control the shear and mixing speed. Mix ratio is 50 pounds of TropiCrete DuraCrete bag mix to 5 quarts of cool, clean water. Always add dry products to liquids, approximately 1/3 of the bag at a time using the mortar mixer to avoid clumping. If the sides of the mixer develop dry powder buildup, scrape sides and continue mixing until powder and lumps break up in the mix. A slight resin adjustment may be necessary to obtain desired consistency. Let stand approximately 2 minutes. Check for premature hardening or "flash set". Should TropiCrete DuraDek be too stiff, add 1 fluid ounce of 6085 TropiCrete Slow Down Retarder and spin into mix. Let stand 2 minutes and check again for hardness. If the mix is still too stiff, repeat by adding 1 fluid ounce of retarder and spin into mix. Do not exceed 4 fluid ounces. Once consistency is attained, repeat procedure on next batch. The retarder is a liquid retardant formulated to slow the speed at which the TropiCrete DuraDek hardens and increases the open time due to warm conditions. Keep lid closed on unused product.

Low Temperature Acceleration Instructions:

The addition of 6086 Speed Up Accelerator will accelerate the mix to a normal set. One (1) ounce of accelerator may be added for temperatures ranging from 50° - 69° F.

DO NOT APPLY PRODUCT IF TEMPERATURES ARE LESS THAN 50°F OR EXCEED 100°F. DO NOT use retarder and accelerator in combination.

Coverage:

One 50 lb. (22.7 kg.) bag covers 100-150 square foot area at 1/4" thick. To achieve a textured (knockdown) effect, apply at 150-200 sq. ft. with a hopper gun at 75% to 80% coverage. Coverage will vary depending on desired texture. Follow instructions under Application.

Application:

Base Coat: First cure the substrate by applying undiluted 6065 TropiCrete DuraDek Resin Fortifier as a coat of paint, using a push broom to form a continuous film over entire surface to receive base coat. Let dry and check for pinholes by pouring a small amount of water on the surface. If pinholes are visible; reapply 6065 TropiCrete DuraDek Resin Fortifier, let dry and check again. Apply basecoat to the surface while 6065 TropiCrete DuraDek Resin Fortifier is tacky, apply in small areas by using a push broom.

Skim Coat: Add up to 7 - 8 quarts of cool, clean water to 50 lbs. of TropiCrete DuraCrete Overlay System to attain workable slurry. Apply using a squeegee, trowel or hopper gun to attain a tight, thin coat. Hopper gun works best for most first coat applications.

Texture Coat: This coat is applied with a hopper gun. The hopper gun used is similar to the type used in the drywall industry. Variation in the size of air nozzle orifice, opening trigger adjustments and air pressure can be adjusted to get the desired pattern. Approximately 13-15 lbs. of pressure is needed when using a mixture of 5 quarts of 6065 DuraDek Resin Fortifier per 50 lbs. of TropiCrete DuraCrete Overlay System.

Knockdown: Allow applied TropiCrete DuraCrete Overlay System material to harden sufficiently and let the moisture leave the surface. Test textured surface by touching to determine proper conditions for knockdown troweling. Walk over sprayed surface with spiked (golf) shoes and trowel lightly to create texture and knock down high spots. Coarseness of texture can be controlled by trowel pressure.

Designed to be used by trained contractors. Professional Use Only!

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. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO 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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