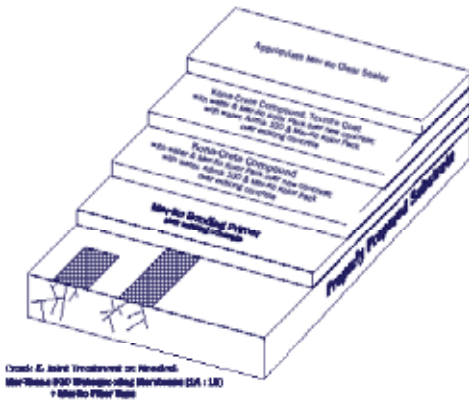




## Kona-Crete®

### Decorative, Cool Pedestrian Traffic Coating



Order & Joint Treatment on Handout  
Mer-Thane 300C Waterproofing Membrane (SA-100)  
+ Mer-Ko Pro-Tect

#### PRODUCT DESCRIPTION

Kona-Crete is a Portland cement-based coating system designed to provide a decorative, durable, cool surface for pool decks, patios, walkways, breezeways and any other light to heavy foot traffic areas. Whether the surface is a high-profile outdoor recreation/entertainment area or backyard patio and pool deck, Kona-Crete provides a durable, comfortable, aesthetic surface to complement any decor. Integral colorants and accents are available for additional design flexibility.

Kona-Crete is engineered for easy application to new concrete, contributing to faster installations and on-time project completion. It can also be used over existing concrete surfaces for aesthetic resurfacing and refurbishment projects. Material is available in a 50 lb (22.7 kg) bag of base material and individual color packets. It installs at a minimum 1/8" to 3/16" (3.2 to 4.7mm) finished thickness and offers additional skid resistance and enhanced aesthetics using a variety of finishing techniques and texturing methods.

#### MATERIAL STANDARDS

- ASTM C150  
Portland Cement Type I

#### USES/APPLICATIONS

- Exterior Flat/Walking Surfaces
- Observation Decks
- Outdoor Entertainment & Dining Areas
- Promenade Decks & Verandas
- Commercial & Residential Pedestrian Traffic Areas
- Walkways & Breezeways

#### SPECIFICATION CLASSIFICATIONS

- 07 18 13 Pedestrian Traffic Coatings

#### SUBSTRATES

Kona-Crete is uniquely designed to be installed over newly-poured, "green" concrete less than five (5) hours old. It can also be used over existing concrete surfaces for resurfacing and refurbishment projects.

#### MATERIALS LIST

- Mer-Ko Bonding Primer
- Kona-Crete Compound
- Water
- Mer-Ko Admix 100
- Mer-Ko Kolor Pack
- Mer-Ko Antiquing Gel (option)
- Mer-Ko Colored Hardener (option)
- Mer-Ko Clear Seal WBA
- Mer-Thane 300C Clear Sealer (option)
- Mer-Ko Pro-Tect (option)

#### PACKAGING

	<u>Gallons (U.S.)</u>	<u>Metric Units</u>
<b>Primer</b>		
Mer-Ko Bonding Primer.....	1 gallon can.....	3.8 L can
Mer-Ko Bonding Primer.....	5 gallon pail.....	18.9 L pail
<b>Bodycoat</b>		
Kona-Crete Compound.....	50 lb. bag.....	22.7 kg bag
Mer-Ko Admix 100 .....	1 quart jug.....	0.9 L jug
Mer-Ko Admix 100 .....	5 gallon pail.....	18.9 L pail
<b>Accessory Products</b>		
Mer-Ko Antiquing Gel .....	1 quart jug.....	0.9 L jug
Mer-Ko Antiquing Gel .....	1 gallon can.....	3.8 L cans
Mer-Ko Antiquing Gel .....	5 gallon pail.....	18.9 L pail
Mer-Ko Colored Hardener .....	5 gallon / 60 lb. pail....	18.9 L / 27.2 kg pail
Mer-Ko Kolor Pack.....	14 oz. bag*.....	0.41 kg bag*
<b>Sealer</b>		
Mer-Ko Clear Seal WBA.....	5 gallon pail.....	18.9 liter pail
Mer-Ko Pro-Tect .....	5 gallon pail.....	18.9 liter pail

\*Colors that require more than 14 oz of pigment to achieve the standard color as indicated on the color chart are provided in larger unit sizes. The ratio of color to Kona-Crete Compound remains consistent at 1:1.

## COVERAGES

*Note: Coverage rates are approximate only and can vary greatly due to surface conditions, humidity, temperature and installation techniques.*

**Primer** ..... 300-400 ft<sup>2</sup> (27.9-37.2 m<sup>2</sup>)/gallon

**Bodycoat** ..... 35-50 ft<sup>2</sup> (3.25-4.65 m<sup>2</sup>)/50 lb. bag

*Mer-Ko Kolor Pack*.....Dependent on usage to achieve desired color  
Recommended ratio is 1:1 (1 Kolor Pack : 50 lb Compound)

*Note: Always pre-mix the Mer-Ko Kolor Pack with appropriate amounts of water before incorporating the Kona-Crete Compound.*

## Accessory Products

*Antiquing Gel* .....Dependent on usage & application technique  
*Colored Hardener*.....Dependent on usage & application technique

## Sealer

*Mer-Ko Clear Seal WBA*..... 750-1,000 ft<sup>2</sup> (69.7-92.9 m<sup>2</sup>)/5 gallon pail  
*Mer-Ko Pro-Tect* ..... 375-875 ft<sup>2</sup> (34.8-81.3 m<sup>2</sup>)/5 gallon pail

*Notes: <sup>1</sup>Additional topcoat material may be required for more textured finishes or design techniques. <sup>2</sup>Mer-Thane 300C is a high gloss sealer.*

## COLORS

Kona-Crete is available in 12 standard colors. Using a wide variety of design elements and colorant accents commonly used in the decorative coating industry, coloring options are virtually limitless. Refer to the Color Selection Guide for additional details. Custom colors are available upon request.

*Notes: <sup>1</sup>Production run colors may vary from color chart. Printed color charts are as closely representative to actual colors as modern printing technology allows. Final color selection should be made from an actual sample. <sup>2</sup>Custom colors require additional lead time. Additional fees and minimum order quantities apply.*

## INSTALLATION CONDITIONS

The Kona-Crete material must not be installed if the ambient temperature is below 40°F (4.4°C) or above 100°F (37.8°C), or when precipitation is expected or occurring. Do not install in inclement weather.

Cold climate applications require additional technical considerations. Consult Mer-Ko for specific requirements.

## CONCRETE PREPARATION

Kona-Crete can be installed on newly poured concrete one (1) to five (5) hours old or over cured existing concrete using adequate surface preparation techniques and application methods.

### New Concrete

For new concrete applications, the timing of the initial concrete slab or deck pour must be coordinated with the application of the Kona-Crete material to ensure application begins no more than five (5) hours after the initial pour begins. Application may begin as soon as the surface is walkable. Ideally, application of the Kona-Crete material will begin during the initial pour, working in tandem with the concrete contractor to apply Kona-Crete material in sections, working back and off of the slab or deck surface.

Forming and grading should follow established building codes and industry guidelines to allow for proper drainage and safety. Pre-set expansion joints should be set flush with the top of the forms. Mask areas directly adjacent to the work surface area. Complete all form work and details prior to commencing concrete installation and Kona-Crete application.

*Note: Before placing the concrete substrate, thoroughly dampen subsoil to prevent excessive water loss during concrete cure into the subsoil.*

Concrete must be 3,000 psi or greater and should not contain fly ash. Fly ash migrates to the surface and interferes with the chemical and mechanical bonding of the Kona-Crete material.

After the base concrete is placed and is ready for finishing, float or trowel to produce an even surface and broom finish. Avoid water holes and drainage problems. Flaws in concrete application and finishing will not be concealed by the Kona-Crete material.

### Existing Concrete

Clean the application area using a power sprayer, grinder, shot blaster or scarifier as required to produce a clean, sound substrate. Concrete surfaces must be clean, sound and have a finish equivalent to a broom finish to provide a uniform surface free of depressions and ridges. All holes, cracks and joints must be cleaned and filled with an appropriate Mer-Ko Underlayment. All high spots must be removed by chipping or grinding. The substrate surface must be clean, dry and free of dust, dirt, oil or other contaminants at the time of material application. Newer concrete applications require a 28 day minimum cure unless applied within five (5) hours of the initial pour, as noted in the previous section.

## APPLICATION INSTRUCTIONS – NEW CONCRETE

### Substrate Finish

The concrete base material must be clean and free of all debris and foreign matter. The concrete must be rough and wet, using a rough broom finish technique prior to application of Kona-Crete. DO NOT leave a steel trowel finish as the base concrete layer.

### Bodycoat

#### Pre-Blending Color Solution

To properly pre-blend the selected Mer-Ko Kolor Pack and water solution and ensure color consistency throughout the Kona-Crete material, use a clean 5-gallon pail mixing with a caged hand drill or mechanical mixer. Pre-blend one (1) Mer-Ko Kolor Pack in the desired color with one (1) to one and one-half (1-1/2) gallons of water for each bag of compound to be used. Slowly add the Kolor Pack to the water while mixing with a caged hand drill. Mix for one (1) minute.

#### Incorporating Solution into the Compound

Using either a clean, 5-gallon pail or mechanical mixer for larger batches, add one (1) bag of Kona-Crete Compound slowly to the pre-blended solution and mix thoroughly for fifteen (15) minutes. While mixing, add the additional water, up to one-half (1/2) gallon (for a total of 1-3/4 to 2 gallons per bag) to achieve the desired consistency. Be sure to incorporate material on the sides and bottom of the mixing container to avoid lumps.

*Note: <sup>1</sup>Depending upon the size of the mixer and number of applicators on site, it is often advisable to mix enough Kona-Crete to complete the entire slab at once. This prevents mixing errors and ensures uniform color throughout the finished material.*

Screen the material prior to application.

Trowel or spray apply the first coat of material achieving complete coverage at a minimum 1/16 inch (0.06mm). Then, apply a second coat by hand dashing with a rice dash brush or finish with a "plastering machine" to achieve a minimum 1/8 to 3/16 inch (3.2 to 4.7mm) total finished thickness.

When the Kona-Crete material begins to lose its 'moisture glaze', use a stainless steel trowel to knock down the fresh material to the desired texture and aesthetic finish. Score in flagstone, blocked finish or other decorative pattern as desired, or use a standard edge tool to create a unique blocked finish.

Allow the area to cure completely (often overnight depending upon environmental and job site conditions) before proceeding with accenting/coloring or topcoat/sealer applications. Ensure complete concrete cure, as detailed by the concrete material supplier, before putting the deck into full service.

Proceed with Accenting/Coloring and/or Topcoat/Sealer application.

# Application Guide

## Kona-Crete

### APPLICATION INSTRUCTIONS – EXISTING CONCRETE

Apply Mer-Ko Bonding Primer to the properly prepared substrate. The bonding primer comes ready-to-use. It does not require thinning. Stir the material slowly before using. Stirring slowly prevents separation. Never shake the material. Brush, roller or spray apply in a thin, continuous layer. Do not over apply or create puddling. Allow Mer-Ko Bonding Primer to dry tack-free before proceeding.

*Note: Application of Kona-Crete bodycoat material must be performed within 72 hours. If application begins after 72 hours for initial priming, the surface must be re-primed with Mer-Ko Bonding Primer prior to proceeding making sure all dust, debris or other surface contaminants have been removed.*

#### **Bodycoat**

##### Pre-Blending Color Solution

To properly pre-blend the selected Mer-Ko Kolor Pack, Admix 100 and water solution and ensure color consistency throughout the Kona-Crete material, use a clean 5-gallon pail mixing with a caged hand drill or mechanical mixer. Pre-blend one (1) Mer-Ko Kolor Pack in the desired color with two (2) quarts of Mer-Ko Admix 100 and one (1) gallon of water for each bag of compound to be used. Slowly add the Kolor Pack to the admix/water solution while mixing with a caged hand drill. Mix for one (1) minute.

*Note: Application over existing concrete substrates using Admix 100 will produce a deeper finished color than when applied over new concrete. Review the Kona-Crete Color Selection Guide for additional details. Producing a finished sample of the selected color for client approval is highly recommended prior to starting the application.*

##### Incorporating Solution into the Compound

Using either a clean, 5-gallon pail or mechanical mixer for larger batches, blend the colored liquid with one bag of Kona-Crete Compound. Gradually add the Kona-Crete compound to the pre-blended solution. Mix thoroughly for fifteen (15) minutes. While mixing, add the additional water, up to one-half (1/2) gallon (for a total of 1-3/4 to 2 gallons of liquid per bag) to achieve the desired consistency. Be sure to incorporate material on the sides and bottom of the mixing container to avoid lumps.

*Note: <sup>1</sup>Depending upon the size of the mixer and number of applicators on site, it is often advisable to mix enough Kona-Crete to complete the entire slab at once. This prevents mixing errors and ensures uniform color throughout the finished material.*

Screen the material prior to application.

Trowel or spray apply the first coat of material achieving complete coverage at a minimum 1/16 inch (0.06mm). Then, apply a second coat by hand dashing with a rice dash brush or finish with a “plastering machine” to achieve a minimum 1/8 to 3/16 inch (3.2 to 4.7mm) total finished thickness.

When the Kona-Crete material begins to lose its ‘moisture glaze’, use a stainless steel trowel to knock down the fresh material to the desired texture and aesthetic finish. Score in flagstone, blocked finish or other decorative pattern as desired, or use a standard edge tool to create a unique blocked finish.

Allow the area to cure completely (often overnight depending upon environmental and job site conditions) before proceeding with accenting/coloring or topcoat/sealer applications. Ensure complete concrete cure, as detailed by the concrete material supplier, before putting the deck into full service.

Proceed with Accenting/Coloring and/or Topcoat/Sealer application.

### ACCENTING/COLORING

Apply accent colorings and/or stains using Mer-Ko Antiquing Gel, Mer-Ko Colored Hardener or other artistic materials commonly used in decorative coating applications as designed for the project. Many coloring techniques and effects can be used to achieve the desired results. Refer to the appropriate Mer-Ko Product Information Sheet for accent/colorant application instructions.

*Notes: <sup>1</sup>When using Mer-Ko Antiquing Gel as an accent colorant, Mer-Ko Clear Seal WBA should be used as the final topcoat. Do not use Mer-Thane 300C Clear Sealer. <sup>2</sup>Do not use acid stains or solvent-based colorants. Consult a Mer-Ko Technical Representative before using colorants other than Mer-Ko products noted within this literature. <sup>3</sup>Mer-Ko Colored Hardener can be broadcast onto the wet Kona-Crete material to create a unique, aesthetic finish. It can be applied immediately following trowel or spray application and before polishing, or applied upon material cure as a color wash.*

### TOPCOAT/SEALER APPLICATION

Apply a Mer-Ko clear sealer to achieve the desired surface protection suitable for the usage environment. Consult Mer-Ko for specific recommendations.

Mer-Ko Pro-Tect, a penetrating water-repellent, can also be used to create a water-resistant finish that improves stain resistance and allows the Kona-Crete material to breathe and maintain a natural finish. Pro-Tect is intended for light foot traffic only.

*Note: When using Mer-Ko Antiquing Gel as an accent colorant, only Mer-Ko Clear Seal WBA should be used as the final topcoat/sealer. Do not use Mer-Thane 300C Clear Sealer.*

#### **Topcoat/Sealer – Mer-Ko Clear Seal WBA**

Sweep the entire deck surface clean of any residual dust or debris. Roller or spray apply one coat of Mer-Ko Clear Sealer WBA to protect the finish and provide a durable, UV resistant, trafficable surface. Allow to dry for a minimum of one (1) hour. Then, proceed with a second application in the same manner as the first. Allow a six (6) hour cure before introducing light foot traffic; twenty-four (24) hours before returning to full service.

#### **Topcoat/Sealer – Mer-Thane 300C Clear Sealer**

Sweep the entire deck surface clean of any residual dust or debris. The surface must be dry and free of all contaminants (e.g., oils, wax, any loose materials). Stir Part A and Part B individually before combining. Using a mechanical mixer at medium speed, add Part B to Part A until a homogeneous mixture is obtained (at least five (5) minutes). Mix frequently during application to maintain consistency. Scrape the sides of the container to ensure no unmixed material remains.

Roller or spray apply one coat of Mer-Thane 300C Clear Sealer to protect the finish and provide a durable, UV resistant, trafficable surface. Use a conventional or airless sprayer (Graco 28:1 pump or higher), or solvent-resistant, phenolic core, short nap sheepskin or equal natural roller cover. Allow a minimum four (4) hour cure. Then, proceed with a second application in the same manner as the first. Allow an eight (8) hour cure before introducing light foot traffic; twenty-four (24) hours before returning to full service.

*Note: Re-coats must begin within 8 to 12 hours of initial application.*

#### **Water-Repellent Option – Pro-Tect Application**

The surface must be clean and dry. Sweep the entire deck surface clean of any residual dust or debris. Brush or spray apply a uniform coat of Pro-Tect on all horizontal surfaces. Do not over apply or create puddling. Over-application will result in white deposits/residue that cannot be removed. If two coats are desired, allow a minimum of two (2) hours drying time between coats. Allow a six (6) hour cure before introducing light foot traffic; twenty-four (24) hours before returning to full service.

**CAUTIONS & LIMITATIONS**

- For freshly poured concrete less than five (5) hours old, the substrate must be rough (e.g., fresh broom finish).
- For existing concrete substrates, the surface must be properly prepared. Non-porous substrates must be scarified.
- Sufficient pitch of the concrete slab/deck surface is required to ensure run-off and prevent pooling.
- Concrete substrates must have a minimum compressive strength of 3,000 psi tested by "point loading" technique and should not contain fly ash.
- Kona-Crete is intended for general service conditions. Avoid exposure to harsh chemicals or acids.

**CARE & MAINTENANCE**

Kona-Crete is designed to provide easy cleanability and low maintenance. To extend the life of the surface to its maximum potential, establish a regular cleaning schedule using a mild soap and water solution, TSP (Tri Sodium Phosphate), Formula 409® Antibacterial All Purpose Cleaner or Formula 409® Glass & Surface Cleaner or similar products. Use a stiff broom or scrub brush to remove any contaminants on the surface of the deck. Rinse thoroughly with clean water after scrubbing. Do not use solvents to remove contaminants as this may cause damage to the deck surface.

The clear topcoat is designed to resist direct exposure to environmental elements and withstand normal wear. When traffic patterns become visible or heavy impacts mar the surface, the clear topcoat should be re-applied to restore aesthetic appeal. Surfaces should be re-sealed every three (3) years for best results, or per the schedule listed on the warranty issued. Refer to Kona-Crete's Care & Maintenance Instructions for more detailed information on proper care and re-sealing.

**STORAGE & HANDLING**

Store all Kona-Crete materials in a dry environment at temperatures between 40°F and 100°F (4.4°C and 37.8°C). All materials should be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight.

**SHELF LIFE**

The shelf life is six (6) months from the date of manufacture in the original, unopened container when the material is stored at temperatures between 40°F and 100°F (4.4°C and 37.8°C).

**WARRANTY**

Five (5) year warranties are available dependent upon product selection and project design. Contact Mer-Ko's Customer Service Department for specific warranty information.

**TECHNICAL ASSISTANCE**

Specification assistance is highly recommended during the initial design process to ensure the most effective engineering details and product selection for long-term durability and protection. Technical assistance for all product and application questions is available by contacting your local Mer-Ko Representative at (800) 851-6303.

*Any recommendation or suggestion relating to the use of MER-KO products made via current technical literature, marketing materials, application guides, specifications, and the like, or in response to specific inquiry or otherwise, is based on data believed to be reliable. However, the products and information are intended for use by Buyers having requisite skill and know-how in the industry. Therefore, it is the responsibility of the Buyer to satisfy the necessary requirements of suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. Mer-Ko believes the information contained herein is true and accurate as of the date of publication. Information contained here is for evaluation only. Mer-Ko reserves the right to modify and/or change products or literature at any time and without prior notice.*

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