

Kona-Crete® Compound

PRODUCT DESCRIPTION

Kona-Crete Compound is a portland cement-based coating material designed to provide a decorative, durable, cool surface for pool decks, patios, walkways, breezeways and any other light to heavy foot traffic areas where bare feet are exposed. 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 freshly poured 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. Kona-Crete is installed at a minimum 1/8" to 3/16" (3.2 to 4.7 mm) finished thickness and offers skid resistance and enhanced aesthetics using a variety of finishing techniques and texturing methods.

CHARACTERISTICS

- Seamless, monolithic wearing surface
- Excellent adhesion to concrete substrates
- Can be installed over fresh concrete pours no more than 5 hours old and over properly prepared and cured existing concrete surfaces
- Resists degradation from UV, ozone, and weathering
- Easy to install and maintain
- Superior stain resistance
- Long-term durability and performance

COLOR

Kona-Crete is integrally colored with a variety of Mer-Ko Color Packs. There are 12 standard colors available. Refer to the appropriate Color Selection Guides for additional details on color options for Mer-Ko's Colored Hardener and Antiquing Gel products.

PACKAGING

50 lb (22.7 kg) bag

INSTALLATION CONDITIONS

Kona-Crete should not be installed if the surface or ambient temperature is below 40°F (4.4°C) or above 100°F (37.8°C), Do not install during damp weather or when rain expected within 24 hours.

Freshly Poured Concrete Application

For freshly poured 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 5 hours after the initial pour begins. Application may begin as soon as the surface is walkable.

After the base concrete is placed and is ready for finishing, float and 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.

MIXING

Pre-Blending Color Solution

For integrally colored applications, pre-blend the appropriate color pack with 1 gallon of water (for each bag of compound to be mixed), in a clean 5-gallon pail by slowly adding a color pack while mixing. Mix for 1 minute.

TECHNICAL DATA

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

Coverage Rate	35-50 ft ² (3.25-4.65 m ²)/50 lb. bag Yield: 1/8" to 3/16" (3.2-4.7mm)
VOC	0 g/L
Dry Time	4 hours at 70°F (21°C) 50% RH
Solids by Volume	100%
Solids by Weight	100%
Abrasion Resistance	0.20 gram loss (ASTM D4060, H-22 Wheel, 1,000 gram load for 1,000 cycles)
Adhesion	> 250 psi (ASTM C794)
Compressive Strength	>2,500 psi (ASTM C109) at 28 Days cure
Indentation Characteristics	Complies (MIL-D-3134 F)
Resistance to Aging	2,000 hours, No visual signs of failure (ASTM D756, AC 39)
Surface Hardness	84 (ASTM D2240, Shore D)
Tensile Strength	> 625 psi (ASTM D638, ASTM C190)
Thickness	1/8" to 3/16" (3.2 to 4.7mm)
Weight	< 2 lbs./ft ²

Mixing/Incorporating Solution into the Compound

Using a clean 5-gallon pail, slowly add the Kona-Crete Compound to the pre-blended solution and mix for a minimum of 15 minutes. While mixing, add the additional water (up to 0.75 gallon additional, for a total of 1.75 gallons per 50 lb. bag) as required to achieve the desired consistency. Be sure to incorporate material on the sides and bottom of the mixing container to avoid lumps. Let the material stand for five minutes then remix for use, while mixing, adjust the mixture if necessary by adding a small amount of additional water until a uniform, workable consistency is achieved.

Existing Concrete

Concrete surfaces require a 28 day minimum cure and must be structurally sound, clean, dry and free of dirt, dust, oil, grease, paint or other contaminants at the time of material application. A minimum deck slope of 2% (1/4 unit vertical in 12 units horizontal) is required for proper drainage. Concrete control joints should coincide with stress relief concentration points, with a maximum spacing of 20 ft (6.1 m).

Concrete surfaces must be properly prepared. Smooth-non-porous substrates must be abraded, clean the application area using a power sprayer, grinder, shot blaster or scarifier as required to produce a clean, sound substrate.

The surface must be uniform, free of depressions and ridges. All holes must be cleaned and filled with an appropriate Mer-Ko underlayment. All high spots must be removed by chipping or grinding. All cracks and control joints should be treated using Mer-Ko Deck Waterproofing Membrane with Mer-Ko's Fiber Tape embedded. See the Kona-Crete Technical Application Guide for complete installation instructions.

Apply Prep Seal Primer to the properly prepared substrate. Brush, roller or spray apply and back roll a continuous layer. Do not over apply or create puddling. Allow Prep Seal Primer to dry tack-free before proceeding.

Pre-Blending Color Solution

For integrally colored applications, pre-blend the appropriate Mer-Ko Color Pack with 2 quarts of Mer-Ko Admix 100 and 0.5 gallon of water (for each bag of compound to be mixed) in a 5-gallon pail by slowly adding a color pack while mixing. Mix for 1 minute.

Mixing/Incorporating Solution into the Compound

Using a clean 5-gallon pail, slowly add the compound to the pre-blended solution and mix for a minimum of 15 minutes. While mixing, add the additional water-(up to 0.75 gallon additional, for a total of 1.75 gallons of Admix 100 and water per 50 lb. bag) until a uniform, workable consistency is achieved. Be sure to incorporate material on the sides and bottom of the mixing container to avoid lumps. Let the material stand for five minutes then remix for use, while mixing, adjust the mixture if necessary by adding a small amount of additional water until a uniform, workable consistency is achieved.

APPLICATION INSTRUCTIONS

Screen the mixed material as necessary, prior to application. Trowel or spray-apply the first coat of material to the horizontal surface achieving complete coverage at a minimum 1/16 inch (1.6mm). Then, prior to the drying of the first material, apply a second application by trowel, rice dash-brush or spray using a hand help drywall hopper gun or plastering finishing machine to achieve the desired level of finish. When applying a knock down texture, wait until the texture material begins to lose its "moisture glaze" and use a stainless steel trowel to knock down the fresh material to the desired texture level and aesthetic finish.

Allow the area to dry completely normally overnight depending upon environmental and job site conditions. Sweep the entire deck surface clean of any residual dust or debris, before proceeding with accenting/coloring or topcoat/sealer applications

CAUTIONS & LIMITATIONS

- Concrete substrates must have a minimum compressive strength of 3,000 psi tested by "point loading" technique.
- Concrete substrates 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.
- Cementitious materials should be used within 30 minutes, do not retemper.
- The Deck Waterproofing Membrane should not be exposed for more than 72 hours prior to being covered with the protective coat.
- Not designed for vehicular or heavy steel wheeled traffic.
- Protect all finished surfaces that are not intended to receive the deck coating system materials.
- When using Mer-Ko Antiquing Gel as an accent colorant, Mer-Ko Clear Seal WBV should be used as the final topcoat. Do not use Pro-Tect or Mer-Thane clear Topcoats over Antiquing Gel.
- Kona-Crete provides moderate chemical resistance. Avoid exposure to harsh chemicals or acids.
- Will not bridge seismic cracks or wide construction joints.
- Reflective cracking can occur with substrate movement.
- Mer-Ko Clear Sealer WBV will enhance, darkening the color level of untreated integrally colored materials.

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 maintenance schedule for washing and cleaning the decorative surface. All corrosive substances, chemicals and organic materials should be cleaned and rinsed away immediately to prevent damage and/or staining. Test all cleaners in an inconspicuous area to ensure compatibility. Use a mild soap and water solution. TSP (Tri Sodium Phosphate) or all purpose cleaners and a stiff broom or scrub brush (polypropylene, nylon, or horsehair) to remove stubborn contaminants on the decking surface. Rinse the deck thoroughly after scrubbing. No solvents should be used to remove contaminants as this may cause damage to the deck surface.

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

STORAGE & HANDLING

Store Kona-Crete materials in a dry environment at temperatures between 40°F and 100°F (4.4°C and 38°C). Do not store in direct sunlight. Keep Kona-Crete bags off the ground and prevent exposure to moisture during transport and storage. Promptly clean tools and equipment with water and mild detergent. Always wear proper safety equipment, including particle mask, eye protection, and gloves when mixing and/or applying these products.

SHELF LIFE

The shelf life is one (1) year from the date of manufacture in the original, unopened container when properly stored.

WARRANTY

Limited manufacturer's defect warranty. Contact Mer-Ko Technical Service Department for specific warranty information or www.parexmer-ko.com.

WARNING:

- Read complete Warning information printed on product container prior to use. For medical emergency information, call 1-800-424-9300.
- For more information on handling this product refer to its Material Safety Data Sheet (MSDS). The most current MSDS and Product Data Sheet (PDS) can be found on our website.
- This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about the guidelines for the proper use and application of the covered product(s) under normal environmental and working conditions. Because each project is different, Parex USA, Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

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