

MicroStone Spray System

Technical Data Sheet



Description

AGGREKOAT SYSTEM by Concrete Craft, A Sprayable Micro System, is an ultra-thin, architectural concrete topping consisting of a combination of liquid polymer and specially formulated powder mixtures that is spray applied in colorful layers providing a durable and slip resistant coating. AGGREKOAT SYSTEM is sold as an easy to use kit.

AGGREKOAT SYSTEM by Concrete Craft tenaciously bonds to virtually any substrate, including concrete, wood, metal, plastic and sheet rock. AGGREKOAT is applied in layers—using a hopper gun, each producing different colors, each accenting and highlighting the previous color spray.

Product Benefits

- AGGREKOAT features exceptional bond strength. This product adheres to most stable substrates, well bonded adhesives and coatings on stable substrates.
 - AGGREKOAT features excellent abrasion resistance and can achieve a compressive strength of 6,000 PSI.
 - AGGREKOAT is a non-toxic design product and dries completely in 24 hours (70 °F/21 °C).
 - The durable, high-strength AGGREKOAT "ku'ugif 'cu'c'nks'cpf 'ku'cxckrdng'lp": "eqnq'nsu'T ghgt" vj'g'AGGREKOAT UJ UVGO by Concrete Craft"eqnq'ej ctvldtqj wjg0
 - Vj g'nks'lpnxf gu'c'ur ctmg'hkplj lpi 'ghgeov
 - AGGREKOAT is an ideal product for creating long lasting, colorfast and vibrant surfaces.
 - AGGREKOAT gives architects, designers and owners an expanded range of cementitious color selection that, in the past, was only available in less wear-resistant paint-type materials0
- The uses of AGGREKOAT SYSTEM include, but are not limited to, large-scale commercial flooring, graphic artwork, stenciling, monograms, logos"cpf"traversing vertical surfaces0

Pre-Application

30 Sweep or vacuum loose dirt from the surface. Use a floor scraper or grinder to remove bumps and surface build-up. For best results, surface should be as smooth and level as possible. Tools and equipment requirements are largely dependent on the project. Common to most projects are: mixing motor, mixing "paddle, eye goggles, polyethylene sheeting (and/or rosin paper), duct or reinforced tape, graduated measuring containers, empty containers for mixing and cleanup, gloves and rags. Application tools depend on the project and include squeegees, hopper guns, trowels, drywall knives, brushes and rollers. Suggested prep, cleanup and trimming tools include: scrapers, drywall knives, hammers, chisels, brooms, dustpan and vacuum. Additional specialty tools may be necessary, depending on the type and extent of preparation required.

40 Concrete Craft utilizes the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying AGGREKOAT. For proper adhesion, the concrete must be a minimum #2 according to the ICRI CSP chart. Contact the ICRI at www.ICRI.org or Concrete Craft for more information on these surface profiles.

3." If there are foreign materials (such as adhesives, paints or high-performance coatings) on the substrate, AGGREKOAT will bond tenaciously to those foreign materials. However, the ultimate test of the stability of the substrate depends on the integrity of the bond between the foreign material and the substrate (not between the foreign material and AGGREKOAT). If stable glossy coatings are to be covered, abrade with an 80-100 grit sanding screen.

60 Standing oil and grease should be wiped clean, scrubbed with an appropriate industrial detergent, rinsed with clean water and completely dried before application of AGGREKOAT. Any remaining oil or grease stains should not affect adhesion, but over time can produce shadowing or ghosting of the original stain.

70 AGGREKOAT will not adhere to wet or damp surfaces.

80 Holes and large chips should be filled and troweled flat using an appropriate structural-grade repair product prior to the base coat application.

90 Control joints and moving/working cracks in the existing concrete are expected to transfer through the surface of the topping and create potential cracking problems. To isolate moving cracks, use a semi-rigid crack repair material. Install according to kit instructions. In the case of existing joints or saw cuts, new joints or saw cuts must be placed in the AGGREKOAT directly over the existing joints or saw cuts. Any new joint or saw cut must penetrate entirely through the new layers of AGGREKOAT0

0 Mask off perimeter and vertical surfaces for protection. Remove masking as soon as possible after application.

0 If the concrete surface exhibits moisture issues, dusting or flaking, a concrete densifying sealer should be used to waterproof and densify problem areas prior to application of AGGREKOAT.

Mixing Preparation

Mixing should be done in a cool area using clean buckets. Because material dries quickly when exposed to air, buckets and small mixing drums work best. Do not allow AGGREKOAT to air dry on tools or equipment. Wash mixing equipment immediately or place in water for later cleaning.

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1. Add 4 - 4 3/4 quarts of AGGREKOAT MICRO POLYMER diluted 1:1 with cool clean water to a clean empty bucket, add colorant labeled "BASE COAT #1" and blend.
2. Add AGGREKOAT powder labeled "BASE COAT" to the liquid and blend until lump free. Maintain the material's consistency for the entire area being treated. Change in mix ratio could result in a color variation. Repeat this process for the second "BASE COAT" once the first "BASE COAT" has been applied.
3. The BASE COAT application should be applied in a wet fluid state to ensure proper adhesion and surface penetration.

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1. Prime 1/2 of the surface to be treated prior to the application of the first BASE COAT with AGGREKOAT MICRO POLYMER diluted 1:1 with cool clean water. Do not allow the primer to dry completely. Spray or roll on the primer making sure to eliminate any puddles. If the primer dries, reapply and agitate to achieve a wet or tacky surface. The primer is needed for the BASE COAT application only.
2. While the primer is still tacky, apply the first BASE COAT to 1/2 of area being treated using a trowel, magic trowel or squeegee at 1/16" to 1/8" thickness not to exceed 1/8" thick.
3. Once the first BASE COAT is dry, prime the second 1/2 of the surface prior to the application of the second BASE COAT with AGGREKOAT MICRO POLYMER diluted 1:1 with cool clean water. Do not allow the primer to dry completely.
4. While the primer is still tacky, apply the second BASE COAT to the second 1/2 of area being treated using a trowel, magic trowel or squeegee at 1/16" to 1/8" thickness not to exceed 1/8" thick. Allow the second BASE COAT to dry completely before moving on to the SPRAY COAT applications. Rinse off equipment immediately after use.
5. Hot surfaces can accelerate the hydration rate, while cool temperatures will tend to slow the hydration rate. Moderate surface temperatures of 60 °F to 80 °F are recommended for best results.
6. At 70 °F, the BASE COAT should dry in about 20 minutes. If high humidity exists, fans can be used to move across the surface to speed set time.
7. Once each base coat application can be walked on without marring the surface, care should be taken to knock down any irregularities, lumps or squeegee marks with a trowel, scraper or drywall knife. If base coat material dries to a final hardness before the surface can be manually smoothed, an 80- to 120-grit screen may be needed to smooth the surface.

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1. Add 2 1/2 - 3 quarts of AGGREKOAT MICRO POLYMER diluted 1:1 with cool clean water to a clean empty bucket, add colorant labeled "SPRAY COAT #1" and blend.
2. Add AGGREKOAT powder labeled "SPRAY COAT" to the liquid and blend until lump free.
3. Repeat process for the second "SPRAY COAT", the first "SPLATTER COAT" and the second "SPLATTER COAT" after each previous application is dry.

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1. For each spray application, pour mixed material into a hopper gun.
2. The first and second SPRAY COATS are sprayed evenly over the entire area being treated. Allow each SPRAY COAT to dry completely before applying the next colored spray coat.
3. Once each SPRAY COAT application can be walked on without marring the surface, care should be taken to knock down any irregularities or lumps using a trowel, scraper or drywall knife.
4. The first and second SPLATTER COATS are shot in small bursts to accent the first two SPRAY COATS. Allow each SPLATTER COAT to dry completely before spraying the next colored SPLATTER COAT. Rinse off all equipment immediately after use.
5. When all SPRAY & SPLATTER COAT applications are complete, allow to cure 24 hours before sealing.

