



H&C® DURA-TOP™ CONCRETE RESURFACER STAMPABLE OVERLAY



PRODUCT DESCRIPTION

H&C® DURA-TOP™ Concrete Resurfacer Stampable Overlay is a cementitious topping for beautifying both interior and exterior concrete surfaces. When stamped, it creates a texture that can resemble a whole array of stamp designs: tile, cut stone, slate, brick, cobblestone, etc. H&C DURA-TOP Concrete Resurfacer Stampable Overlay offers restoration, repair, resurfacing, architectural accenting, and surface protection of existing concrete. H&C DURA-TOP Concrete Resurfacer Stampable Overlay imparts additives, which enhance the cement in the system. Special copolymers create adhesion and flexibility essential in a thin topping. Our use of high performance admixtures increase strength, reduce permeability and shrinkage by combining with calcium hydroxide produced during hydration of the cement. The admixtures also help improve chemical resistance, reduce efflorescence and alkali-silica reactions.

FEATURES & BENEFITS

- Stampable cementitious topping for interior or exterior surfaces.
- Use with H&C's DURA-TOP color packs.
- Suitable for any climate, freeze/thaw cycles, and traffic bearing surfaces.

RECOMMENDED USES

H&C DURA-TOP Stampable Overlay is formulated for interior or exterior use on concrete surfaces such as driveways, retail settings, pool decks, patios, parking decks, sidewalks and garage floors.

COVERAGE RATES

One 50 lb. bag of Stampable Overlay covers :
15 sq. ft. @ 3/8"
20 sq. ft. @ 1/4"

JOBSITE TEST SECTION

Due to the wide variety of substrates, preparation methods, application methods and environments, it is important to create a test sample.

LIMITATIONS

- On excessively hot days, it is suggested to use the material only if protected from the direct heat of the sun
- Extreme temperatures interfere with the curing of the material.
- DO NOT apply product when air, mixture or substrate temperature is below 50°F (10°C) or above 90°F (32°C)

SURFACE PREPARATION

New Concrete: Allow new concrete to cure at least 28 days. Concrete surfaces should absorb water rapidly (approximately 10 to 15 seconds). To test absorption, spray various sections of the surface to be coated with water. If the water does not absorb, mechanically profile or acid etch the surface using H&C® CONCRETEREADY® Etching Solution, following label instructions. After proper profiling or etching, the surface should feel like 120-grit sandpaper. If not, then profile or etch again. Mechanical abrasion methods may be necessary to achieve proper profile. Do not apply the stain until all surfaces are porous. Prepared concrete must have a pH of 6 to 10.

Existing Concrete: All concrete must be porous, clean, dry and free of grease, oil and other contaminants. Deep scrub the floor using an orbital cleaning machine and black pad. To spot clean, use H&C CONCRETEREADY Cleaner Degreaser, following label directions. If mold, mildew, or fungus is present, kill and remove with a solution of 1 cup household bleach to 1 gallon of water. If surface has been previously painted, remove all old, peeling, flaking paint. In addition to porosity, all concrete requires a profile consistent with the feel of 120-grit sandpaper.

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Repair: For the best repair on vertical and horizontal concrete and masonry surfaces, use H&C CONCRETEREADY Quick Patch and Repair to fill low spots and spalled concrete. Please note that patching compounds will generally be visible through clear coatings.

Substrate must be 50°F and rising before installation. Surface at 90°F and above must be cooled before installation. Dampen area with fog tipped sprayer before using, leaving no puddles.

TOOLS REQUIRED

- 1/2" (13mm) drill
- Drill must be a slow or variable speed drill
- Mixing paddle
- Respiratory Protection
- Eye Protection
- Gloves

APPLICATION INSTRUCTIONS

Bond Coat: Apply a thin coat of the H&C DURA-TOP Texture Resin & Bond Coat to the surface. This bond coat can be applied by a roller, pump spray and airless sprayers. If spraying, do not allow the bond coat material to puddle. Back roll any puddled material to prevent drying issues. Allow the bond coat to dry to the touch before application of the overlay system. Bond coat drytime will vary based on environmental conditions. Older and more weathered surfaces may require a thin base coat of overlay material to create a level surface and prevent settling of the stamp coat. Add seven (7) to seven and one half (7 ½) quarts of water to an empty, clean 5-gallon container.

Always add dry material to the water and slowly introduce one (1) 50-pound bag of H&C DURA-TOP Concrete Resurfacer Stampable Overlay . Mix thoroughly to a lump free consistency for at least one (1) minute paying close attention to potential dry material on sides or bottom of mixing container.

Cover or mask all areas requiring protection with tape and paper so that material does not bond to unwanted surfaces. Dampen concrete before applying the base coat (SSD). Concrete MUST be damp with no standing water prior to base coat application. Apply the base coat by troweling, steel squeegee or hopper gun sprayer.

For integral color, use one H&C DURA-TOP Color Pack per 50lbs of H&C DURA-TOP Concrete Resurfacer Stampable Overlay. Always add the color pack to the liquid prior to adding the H&C DURA-TOP Stampable Overlay. Incorporate the color pack with a low speed drill and mixing paddle. Stamp Coat: Mixing in a bucket: Add three and one half (3 ½) to four (4) quarts of water to an empty, clean 5-gallon container. desired, introduce one (1) color pack to integrally tint the mix while mixing with an adequate drill equipped with a cage mixer. Slowly introduce one (1) 50-pound bag of H&C DURA-TOP Concrete Resurfacer Stampable Overlay.

Mix thoroughly for at least one (1) minute paying close attention to potential dry material on sides or bottom of mixing container. Lumpy material will not gauge rake well and will result in an inconsistent application.

Stamp Coat: Mixing in a bucket: Add three and one half (3 ½) to four (4) quarts of water to an empty, clean 5-gallon container. If so desired, introduce one (1) color pack to integrally tint the mix while mixing with an adequate drill equipped with a cage mixer. Slowly introduce one (1) 50-pound bag of H&C DURA-TOP Concrete Resurfacer Stampable Overlay Mix. Mix thoroughly for at least one (1) minute paying close attention to potential dry material on sides or bottom of mixing container. Lumpy material will not gauge rake well and will result in an inconsistent application.

Mixing in a mortar mixer: Add a little over six (6) to seven (7) gallons of water. Introduce seven (7) color packs to integrally tint the mix. Start mixer. Slowly introduce seven (7) 50-pound bags (one at a time) of H&C DURA-TOP Concrete Resurfacer Stampable Overlay Mix allowing each to mix thoroughly. Continue to mix for a minimum of two (2) minutes after the addition of the final bag.

Apply in ambient and substrate temperatures between 50°F and rising and 90°F. Pour stamp mix material directly onto the surface not exceeding an amount that can be reached and worked properly. Immediately gauge rake to desired thickness. For linear or grouted patterns usually 3/8" of stamp mix is required. For seamless, featheredge texture (skin) mats 1/4" of stamp mix is required. It is important to hold the gauge rake level to achieve the correct thickness and coverage. Gauge raking must be done expeditiously, as the material is "open" and giving up moisture. On very hot and/or windy days, an evaporative retarder, will slow down the premature set of material. Misting the stamp coat with water will also help extend the open time of the product. Once the material is raked to a consistent thickness, smooth with a round edge steel trowel (fresno) or steel squeegee. The surface should be slick troweled to create a "skin" so that stamp mix can uniformly react. A rough surface that breathes will cause premature flashing of product. Occasionally the surface may be misted to allow the fresno to smoothly pass across the surface. Mist with water as job conditions dictate. Small trowel marks will disappear during stamping process.

Do not over-trowel material, which may cause the skin to tear or blister. Pay close attention to maintaining the correct thickness at edges. Allow stamp coat material to set until material yields to touch without easily sticking to fingers. This drying time should range from thirty (30) minutes to two (2)

hours depending on thickness and weather conditions. Indoors, shaded areas or areas without air circulation, and material placed in cold temperatures may take significantly longer to set.

Stamping: Using a solvent pump-up sprayer, apply H&C DURA-TOP Concrete Resurfacer Liquid Release agent to stamps and to the stamp coat material. Cover an amount with liquid release that can be stamped within several minutes. If the liquid release has evaporated prior to stamping, it must be reapplied. Proper alignment of the first few stamps is critical. A “dry” run of stamp placement is necessary prior to mixing any product. This is especially important to observe with linear or grouted stamp patterns that may need to be placed square or centered. Create a stamp and working platform with linear stamps that spans at least the shortest length of the area to be stamped. Never attempt to “leap frog” stamps across a long linear run. Have a sufficient number of stamps to always work a stamp against another stamp. This contributes to a straight or square run for linear patterns. Because their pattern is totally random, skin mats do not require the creation of a stamp and working platform. One installer with two large skin mats can “leap frog” stamp across a large area.

As each stamp is placed, apply adequate pressure to the entire surface of the stamp producing a complete impression with proper texture. Most installers “walk” the stamp to create impression, but occasionally, it may be necessary to use a tamping tool to get full stamp impression. Skin mats may more often require a tamping tool to remove the installer’s foot prints. Continue running the stamps by carefully lifting the earliest stamp placed and setting it in sequence. If the desired texture is not achieved, reset the stamp in the same orientation and apply proper pressure. Use super flex and touch-up-mats against walls and columns or as required. Avoid creating a vacuum when lifting stamp tools by flexing corners or edges. Flex the stamp to be lifted in the middle and lift straight up. Periodically check stamp alignment and adjust if necessary

Joint Cleanup: Double lines and excess material in joints may be removed typically the following day. Do not attempt to cleanup this material while it is wet. The best time to clean is as soon as the stamp overlay can bear light foot traffic with socks without disturbing the texture. A joint cleaning tool can be fashioned by creating a loop in banding iron. The loop’s size can be adjusted to correspond to the grout width. Simply scrape out the double lines with this tool. All edges of material should be trimmed clean at this same time. A soft brush and a leaf blower keep the loose material cleaned up from the surface. Touch-up areas missed and repeat cleaning process. Use caution in this clean-up process that excessive moisture from rain, sprinklers, or any other source does not

immediately flood the surface. Water can migrate beneath the face of stamp overlay and ruin the texture.

Top Coating: The stamped surface will require a minimum of 24hrs before applying a chemical stain or other treatments. If cooler temperatures persist, the stamped surface may require additional time to cure before staining or sealing. A sufficiently dried texture system will not leave a thumbnail impression in the surface. Completely brush with a stiff broom to knock off loose material, sweep clean and then apply an appropriate H&C H&C COLORTOP concrete stain or sealer. Prior to application of any H&C COLORTOP concrete stain or sealer, a wash coat of H&C CONCRETEREADY Etching Solution (5:1 water to Etcher) should be applied to the overlay surface. The wash coat will remove any release agent that may have formed a seal on the surface, which can prevent penetration and adhesion of a H&C COLORTOP concrete stain or sealer. Agitating the Etching solution with medium/soft bristle brushes will help to remove any residual release agent. Thoroughly rinse the surface with clean water to remove all residual etching solution. Once dry, test the overlay for porosity by dropping water onto the surface. The water should penetrate quickly and slightly darken the overlay. Any water beading or standing on the surface means residual release agent is still present and another wash coat of the H&C CONCRETEREADY Etching Solution should be performed and water test done.

CLEANUP

Clean tools and any spills or spatters immediately using soap and warm water. Clean hands immediately after use with a waterless hand cleaner.

Disposal: Comply with all applicable local, state and federal rules and regulations for powder, mixed and cured product, the packaging and mixing containers

MAINTENANCE

Clean surfaces coated with H&C DURA-TOP Concrete Resurfacer Stampable Overlay using a mixture of 3 parts water to 1 part H&C CONCRETEREADY Cleaner Degreaser.

PHYSICAL PROPERTIES

Physical Properties and Characteristics		
Property	Test Method	Value
Compressive Strength	ASTM C-109	7 Days 3580 PSI
		28 Days 4350 PSI
Flexural Strength	ASTM C-78	9-days 880.7 PSI
		28-days 1494.3 PSI
Adhesion	T-BAR Adhesion Test	7-days 137.1 PSI
		28-days 190.3 PSI

ORDERING INFORMATION

Size	Part Number/SMIS
50lb bag	60.100509-50/ 6509-21422

CAUTION

CAUTIONS May cause skin or burns or irritation. Inhalation is known to cause cancer or delayed lung injury. Avoid contact with eyes and skin. Wear safety glasses or goggles, protective clothing, shoes and gloves to prevent eye and skin contact. This product contains hydraulic cement. When mixing with water and/or latex, it results in a solution that is highly alkaline and may burn or irritate the eyes or skin. Avoid breathing dust. This product contains crystalline silica sand. Prolonged exposure to crystalline silica dust is known to cause lung cancer or delayed lung injury, including silicosis. Take measures to eliminate or control dust while handling this product. Wear a respirator approved for protection against crystalline silica dust. Warning: This product contains a chemical known to the state of California to cause cancer.

First Aid: If ingested, drink one to two glasses of water. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention. In case of contact with eyes and/or skin, flush area with clean water for a minimum of 15 minutes and seek medical attention. Read the safety data sheet (SDS) for this product prior to use. For additional information contact your distributor. **KEEP OUT OF REACH OF CHILDREN**

LIMITED WARRANTY

Seller's and manufacturer's only obligations shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from the applicator's inability to use the product for his/her intended use. The user assumes all risk and liability.

TECHNICAL SERVICES

The information and recommendations set forth in this product data sheet are based on tests conducted by or on behalf of H&C Products Group and The Sherwin-Williams® Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your H&C or Sherwin-Williams representative to obtain the most recent product data sheet.

For technical assistance, call 1-800-867-8246 or visit www.hcconcrete.com.