



# **Burnish** WITH COLOR FLOOR

- **Smith's Burnish with Color Floor system consists of a UV resistant stain and densifier combination:**
  - **Smith's Base Boost (Densifier) mixed with Smith's Color Floor UV resistant stain**
  - **Smith's Surface Guard - Gloss or Low Sheen**
- **Low Odor & Zero VOC's**
- **Improved Chemical & Stain Resistance vs. traditional polishing methods**
- **Great option for new concrete & polishable Overlay systems**
- **Does not fade due to sunlight exposure**





## Application Instructions

# BURNISH WITH COLOR FLOOR SYSTEM

PDS-BCF-080119

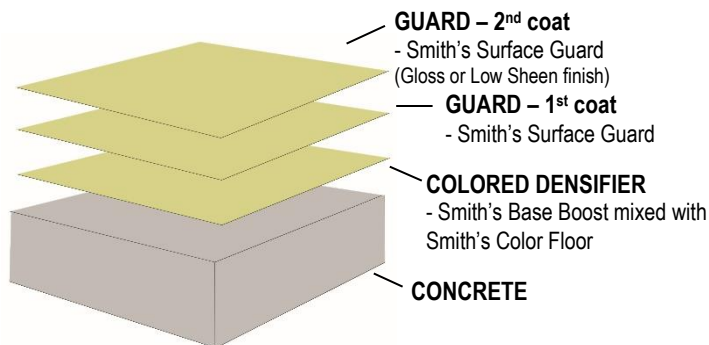
These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. These instructions should be followed closely to obtain the maximum service from the product.

**DESCRIPTION:** Smith's Burnish with Color Floor system is a decorative concrete coloring which utilizes Smith's Base Boost Densifier mixed with Smith's Color Floor concentrated stain to achieve a similar appearance to a concrete dye and polish system but with better stain resistance as well as being UV Stable. Ideal for supermarkets, restaurants, showrooms, warehouses and more, especially those with a risk of spills from Coffee, soft drinks, pickle juice, fuel, etc. that would stain traditional polished or burnished concrete.

### HIGHLIGHTS:

- Decorative & Economical
- Color & Density at the same time
- Low Odor during application with no risk of food flavoring/tainting
- Fast Return to Service
- Low VOC's – Meet requirements for all OTC & AQMD regions
- Resistant to Hot Tire Pick-up
- 33 Color Floor options

### SMITH'S BURNISH WITH COLOR FLOOR SYSTEM



### NECESSARY TOOLS and EQUIPMENT:

- Plastic Sheeting or Ram Board to cover floor for mix station
- Planetary Floor Grinder with appropriate CFM vacuum
- Orbital, High Speed Floor Machine/Buffer (min. 1500 RPM)
- Diamond Encrusted Pads in 400, 800, 1500 & 3000 grits
- Auto-Scrubber with white pad or white, soft nylon brush head
- White, Microfiber mops
- Paint Stir Sticks
- Measuring Cups
- Masking Tape
- White Rags (for clean-up)
- 5 gallon Plastic Mixing Buckets
- Pump Sprayer
- Premium, Non-Shed 1/2" Nap Paint Roller Covers
- Paint Roller Frames
- Threaded Extension pole (for Paint Roller Frames)
- Water (Distilled, Deionized, or Reverse Osmosis water)

**SURFACE PREPARATION:** The surface preparation phase should be viewed as the most important. Proper preparation results in the product's longevity, minimizes potential failures and creates the best environment for an aesthetically pleasing work of art.

### SURFACE PREPARATION VIA GRINDING:

**Step 1** - Use a traditional planetary concrete grinding machine to dry grind the application area with 40 grit metal bonded diamonds. Remove excess powders from the substrate.

**Step 2** - Proceed with a second dry grind over the same area with 70 grit metal bonded diamonds. Remove excess powders from the substrate.

**Step 3** - Proceed with a second dry grind over the same area with 100 grit metal bonded diamonds. Remove excess powders from the substrate.

**NOTE:** Diamond grit may be altered based on concrete matrix and hardness. The primary purpose of Steps 1-3 is to remove to top layer of concrete while honing the scratch pattern created by diamond grinding process. After Step 3 is completed, there should be no visible mechanical scratch pattern (circular or swirl marking) on the intended application area as the coloring process will accentuate this pattern. Should a mechanical scratch pattern exist after Step 3, increase to 100 grit metal bond diamonds repeating the process and potential further increasing the grit of the diamond grit necessary unless an appropriate finish without a mechanical scratch pattern can be achieved.

The use of Resin bond diamonds will require a wet grind in order to mitigate the resin transfer to the intended application area. The resin residue will negatively affect the stains penetration, adhesion and appearance. Using solely metal bond diamonds is preferred.

### SURFACE PREPARATION WITH GREEN CLEAN Pro:

**Step 1:** Remove paint, adhesives and loose particles from the intended application surface.

**Step 2:** Liberally apply Smith's Green Clean Pro to a 20x20 feet section of the substrate or smaller with a pump up sprayer or dip and roll method with a 1/2 inch nap roller cover.

**Step 3:** Allow the Green Clean Pro to remain on the substrate for 20 minutes. Do not allow material to dry on the substrate. Mist water via hose or pump up spray to keep treated area from drying.

**Step 4:** Agitate Smith's Green Clean Pro utilizing a floor buffer (small area) or an auto-scrubber (large area) equipped with brush attachments while rinsing with clean water. Extract material utilizing a wet/dry vacuum or by lowering the squeegee uptake bar on the auto-scrubber. Continue to flush and agitate the substrate until the rinse water is clear.





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**AREA PREPARATION:** Be sure to mask or cover all areas that are not intended to be colored or sealed; including, but not limited to; door frames, doors, walls and windows.

The mix station and all application equipment should be ready for immediate use prior to mixing any product. Higher temperatures and humidity will shorten pot life.

### BURNISH APPLICATION:

**Step 1:** Mix Stain/Densifier solution (Parts by Volume):

- 1 part Smith's Color Floor
- 2 parts distilled, deionized, or reverse osmosis water
- 2 parts Smith's Base Boost

Mix the water and stain concentrate, then add the Base Boost (if concentrate is mixed directly into the Base Boost a potential incompatibility may occur). Pour into pump sprayer.

**Step 2:** Apply a minimal amount of diluted stain to intended application area via a pump up sprayer. Massage applied stain into surface via a micro-fiber mop until dry to the touch. If streaking lines appear, too much stain has been applied to surface. Continue to massage stain into the substrate until these lines are not present.

If more color depth, opacity or a highlight color is desired, repeat Burnish Application Step 2. Apply the 2<sup>nd</sup> pass of stain perpendicular to the previous application. For example, if the 1<sup>st</sup> pass was applied north to south, the 2<sup>nd</sup> pass should be east to west. This increases color depth and uniformity. Complete the 2<sup>nd</sup> color pass following the same application techniques as in the 1st pass.

**NOTE:** The application of thin coats of stain/densifier solution is necessary. Puddling the stain will result in additional time and labor to remove application lines. In addition, un-absorbed silicate in the "ready-to-use" stain/densifier system may result in a powder or water soluble film with undesired color blemishes and decreased durability.

**Step 3:** Utilizing a high speed buffer with a minimum of 1500 rpm's, burnish application area with 400, 800, 1500 and 3000 grit diamond encrusted pad

**Step 4:** Mop or auto-scrub the entire area with clean potable water to remove any fine powders and particulate.

**Step 5:** Apply Smith's Surface Guard via a micro-fiber mop. Apply as a thin film (2-3 mils). Allow to dry to the touch.

**Step 6:** Re-apply Smith's Surface Guard via a micro-fiber mop. Apply as a thin film (2-3 mils). If an increased gloss is desired, burnish the application area with a hogs hair or white pad after full cure (12 hours).

**MAINTENANCE:** For ongoing maintenance, Smith's Surface Guard can be burnished with a diamond encrusted pad to remove scratches. Another option is the application of Smith's ME-1000, an acrylic polish. Apply 2 coats of Smith's ME-1000 with a microfiber, allowing the 1<sup>st</sup> coat to dry to the touch before the application of the 2<sup>nd</sup> coat. Once the ME-1000 is dry to the touch, burnish the application area with a white pad. Spray buff at least once per month to maintain the sheen and apply a restorative coat of Smith's ME-1000 as necessary when traffic patterns begin to develop.

Dust mopping, removal of debris and regular cleaning is crucial to maintaining the aesthetics and obtaining the maximum life span of the Burnish with Color Floor system. Cleaning cannot occur too often. Inefficient cleaning procedures will reduce the longevity causing the floors finish to wear out prematurely and possibly stain or discolor depending on what comes in contact with the floor.

Spills should be removed quickly.

Avoid the use of Polypropylene or abrasive bristle (Tynex®) brushes as these brushes will cause the development of scratch patterns and lessen the sheen. Use the least aggressive pads or brushes available when using an Auto-scrubber or low speed floor machine to wet clean the floor, such as Nylon or white pads to maximum your investment. Allowing abrasion particles and debris to be traffic ground into the floor for extended periods of time may scratch and/or dull the finish prematurely.

It is good practice to develop a floor maintenance schedule to be performed at the end of each shift and a set day per week or month for heavy cleaning:

- **Daily** = Sweep and dust mop or water only mopping/auto-scrubbing; spot clean spills and oils
- **Weekly or Monthly** = Scrubbed once per week or month depending on the amount and type of soils present.

Health Department or DEA regulations may necessitate more frequent and stringent cleaning practices as will areas more prone to oils, inks, chemicals, etc. on the floor surface.

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**DETERGENT:** Always use the least aggressive detergent necessary to remove the residue. [Smith's Neutral Clean](#), or similar, may be used for general purpose cleaning. Use [Smith's Oil Clean](#), or similar degreaser, for more degreasing and heavy duty weekly or monthly cleaning.





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### CAUTION:

- Do not drag or drop heavy objects across any floor, including coatings as scratching, gouging or chipping may occur to the concrete or the coating itself. This includes the tip of the forks on a forklift, nails protruding from a pallets, etc.
- Avoid spinning tires on the surface of a coated floor. The heat created from the friction of a spinning tire will quickly soften the coating causing permanent damage to the finish.
- Should a gouge, chip or scratch occur, touch-up the damaged areas immediately to avoid chemical or water intrusion to the concrete which could create additional damage. A thin layer of clear nail polish to the damaged area will provide some minimal protection until the area can be properly repaired.
- Rubber tires are prone to plasticizer migration, especially aviation tires and high performance car tires. Plasticizer will stain coating and commercial flooring leaving an amber, yellow-like stain that can be permanent. This can be more noticeable where aircraft or vehicles are stationary for longer period of time, more so in non-climate controlled environments such as aircraft hangar with lighter colored floors. To avoid plasticizer staining, use a piece of Plexiglas® or LEXAN® panels, cut a few inches in diameter larger than the tires that will rest on the panels, between the floor and the contact point of the tire when storing rubber tired vehicles on any floor, including floor coating systems. Some tire stains can be removed is cleaned before a set-in stain occurs using a d-Limonene based degreaser and some mild agitation using an orbital, low speed floor machine.

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**SLIP RESISTANCE:** It is the contractor and end users' responsibility to determine the appropriate traction needs and footwear necessary for the conditions as well as setting performance parameters prior to beginning the application, testing to determine parameters have been met upon completion to achieve the end users documented safety standards. Smooth surfaces will not provide adequate traction for wet areas, food preparation or food processing areas, exposure to oil, ice, etc.

Mock-ups are highly recommended as part of the evaluation process to determine the appropriate amount of slip-coefficient necessary for the environment.

**MOISTURE/ALKALINITY:** The absence of an effective moisture vapor barrier may create an environment for moisture vapor transmission as well as high levels of alkalinity in concrete slabs. Moisture testing is extremely important has part of the investigation process prior to quoting a project and should occur following the most current industry accepting testing methods, such as, a Calcium Chloride test (ASTM F-1869) and/or Relative Humidity probe (ASTM 2170). It is the contractor's responsibility to determine the moisture vapor transmission and pH of a floor. It is the contractor's responsibility to determine whether or not a substrate is sound, solid and suitable.

Smith Paint Products is not responsible for discoloration or Efflorescence development due to the presence of high moisture vapor emissions nor high levels of alkalinity.

**LIMITED LIABILITY:** Liability is limited to replacement of defectively manufactured product with same type and cost of the original purchased product upon presentation of a valid, fully paid invoice at the time of a claim. No warranty shall be granted for outstanding invoices or for accounts with unpaid balances until paid in full. No damages, whether consequential, liquidated or other, shall be provided under this Limitation of Liability and Limited Warranty. Should a product defect be suspected at the time of application, cease use of the product immediately and notify Smith Paint Products for investigation otherwise you will be responsible for the cost to repair or replace any work performed with product(s) suspected of defect. Record batch codes and save all products you purchased in order for any warranty to occur allow with the invoice that matches said quantity. Defects determined after installation must be reported to Smith Paint Products within 10 business days of discovery.

Upon information, belief and to the best of our knowledge, the information contained herein is true accurate as of the date of issuance of this particular document and any and all information conveyed, whether expressed or implied. Is subject to change without prior notice. We guarantee our products to conform to Smith Paint Products quality control standards, but not to any other standards unless specifically stated in written documentation. Smith Paint Products assumes no liability for coverage, performance, injury results from use, misuse or usage not described in any promotional materials or regulatory infraction determined by using our products. The applicator assumes all liability for use and local regulatory compliance. Promotional materials are not a supplementation to any product purchase agreement, nor should such documents be considered a type of contract, if any is reduce to writing.

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