



Product Data Sheet

CF-PDS-07062026

WATERBORNE CONCRETE STAIN COLOR FLOOR

Decorative, Waterborne, Concentrated Acrylic Concrete & Masonry Stain

DESCRIPTION: Smith's Color Floor™ is a semi-transparent decorative stain for concrete & masonry surfaces. These stains are water submersible, alkali, weather & U.V. light resistant.

Smith's Color Floor stains require a sealer or topcoat & are compatible with solvent-based or water-based single & 2-component products, including but not limited to Acrylics, Polyurethanes, Polyaspartics, & epoxy-based sealers or topcoats.

Please note, Smith's Color Floor is not compatible with Methyl Methacrylate or penetrating sealers.

Smith's Color Floor also accepts (Optional) [Smith's Base Boost additive](#) for initial bare concrete staining.

RECOMMENDED USE:

- Interior & Exterior use
- For use over:
 - Concrete & Masonry - including but not limited to:
 - Polymer-modified Overlays
 - Pavers
 - Brick
 - Stucco
 - Previously sealed, well bonded surfaces
 - Neutralized acid-based stains

NOT RECOMMENDED FOR:

- Non-porous substrates (e.g. metal, resin, fiberglass) when submerged in water or exposed to severe weather conditions

HIGHLIGHTS:

- Low Odor
- Fast Air Dry
- Overnight Deliverable – no Red Label
- Low VOC

COLORS: Three different "Series" give the applicator a wide range of affects that they may obtain. All the colors in Smith's Color Floor line are totally compatible with one another in both the dry & wet stage. [See color chart by clicking here.](#)

CLASSIC SERIES – Used for applications which range from high hide to transparent variegated appearance

OLD WORLD SERIES – Remains transparent even with multiple coats — appear very similar to acid stains

BRIGHT LIGHT SERIES – High-chroma, intense colors for accenting or artistic differentiation

STORAGE: Indoors between 40°F (4.4°C) to 110°F (43.3°C)

SUBSTRATE SURFACE TEMPERATURE:

	Material	Surface	Ambient	Humidity
Best	60°F to 90°F (15.5°C to 32.2°C)	65 to 86°F (18.3°C to 30°C)	65 to 90°F (18.3°C to 32.2°C)	10% to 60%
Minimum	45°F (7.2°C)	45°F (7.2°C)	45°F (7.2°C)	0%
Maximum	105°F (40.5°C)	110°F (43.3°C)	110°F (43.3°C)	80%

*Avoid application within ±5° of Dew Point Temperature

SHELF LIFE:

2 Years in original, unopened containers;
 Once opened but undiluted - Use within 12 months
 Once diluted – Use within 3 months

AVAILABLE SIZES:

- 4 ounce Bottle • 1 Quart Bottle • 1 Gallon Jug • 5 Gallon Pails

CURE TIMES (Approx. 0.58 mils DFT @ 70°F / 30% Relative Humidity):

Pot-Life	3 months once mixed
Tack Free (Dry to touch / No pickup time)	15 to 20 minutes
Recoat Window (Additional staining with Color Floor layers)	Tack Free to Infinite
Light Rain Exposure (no bleed)	60 to 90 minutes
Foot Traffic	60 minutes
Sealing / Topcoating - Waterborne - Solvent-based	Typically <60 minutes 24 hours
Heavy Traffic (i.e. Planters, parked vehicles, etc.)	Sealer / topcoat dependent (See sealer / topcoat product data sheet)
Water Submersible	24 hours

* Allow longer cure time at cooler application temperatures

**Tape test to determine dry to no pickup when ambient humidity exceeds 65%

CURED COATING PROPERTIES (DRY FILM):

PROPERTY	TEST METHOD	RESULTS
*Abrasion Resistance mg/loss *Taber Abraser	ASTM D4060	Varies based on sealer / topcoat (See sealer product data sheet)
Gloss (60°)	ASTM D1455	Varies based on sealer / topcoat (*See topcoat product data sheet)
Approximate Shipping Weight (Concentrate) - 1 Quart Bottle - 1 Gallon Jug - 5 Gallon Pail		Varies slightly by color 2.3 lbs. (1.04 kg) 8.9 lbs. (4.04 kg) 44.2 lbs. (20.05 kg)
VOC's	ASTM D3960	Varies by color (See individual color SDS)
Flash Point	ASTM D3278	212°F (100°C)

*Taber Abrasion Resistance Test performed by independent laboratory, Architectural Testing, Inc. Abrasion resistance values of Smith's Color Floor are comparable to acid-based stain. Full report of Architectural Testing, Inc.'s Taber Abrasion Resistance Test is available upon request.

COLOR RETENTION: Colors used in these formulas specifically selected to produce the most durable, lightfast & alkali resistant stains available:

Pigment	Alkali Resistance	U.V. Light Resistance
Carbon Black	Excellent	Excellent
Titanium White	Excellent	Excellent
Iron Oxide	Excellent	Excellent
Phthalo Blue	Excellent	Excellent
Phthalo Green	Excellent	Excellent

APPROXIMATE COVERAGE (4 to 6.4 mils WFT per layer)

Coverage Equation: $1604 \div \text{milage} = \text{Wet Film Thickness}$

*Coverage varies due to thickness, floor profile & substrate absorbency

Package Size (Concentrated)	Total Yield (Diluted Mixture)	Approximate Coverage per sq.ft.
4 ounces (0.12 L)	20 ounces (0.59 L)	35 to 50 ft ² (3.25 to 4.65 m ²)
1 quart (0.95 L)	1.25 gallons (4.73 L)	250 to 400 ft ² (23 to 37 m ²)
1 gallon (3.78 L)	5 gallons (18.93 L)	1,000 to 1,600 ft ² (93 to 148 m ²)
5 gallons (18.9 L)	25 gallons (94.64 L)	5,000 to 8,000 ft ² (465 to 743 m ²)



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LIMITATIONS:

- NOT RECOMMENDED for use over polished concrete
- Non-porous substrates (e.g. metal, resin, fiberglass) when submerged in water or exposed to severe weather conditions
- "Hard" water has an adverse effect on Smith's Color Floor. Therefore, in order to achieve optimal service, use distilled, deionized or reverse osmosis water for mixing with this product
- Avoid application over surfaces which are too hot (e.g. holding your bare skin to the surface for more than 30 seconds becomes uncomfortable) as the product will flash cure when applied to hot surfaces, especially when applied in direct sunlight
 - Direct sunlight causes concrete to absorb heat; therefore the surface temperature can be 20°F to 30°F (11°C to 17°C) hotter than the surrounding air. (e.g. 95°F / 35°C) air temperature with direct sunlight exposed concrete can easily reach 125°F / 51.7°C or hotter
- Surface preparation is required for both newly cured & old, existing concrete
 - New concrete also requires proper curing prior to application
- Traffic bearing surface must be sealed or topcoated with an appropriate product
- DO NOT USE MURIATIC/HYDROCHLORIC ACID TO PREPARE CONCRETE AS CHLORIDE CONTAMINATION CAN OCCUR, especially with Type 1L concrete
- When etching, ensure all [Smith's Green Clean Pro](#)™ has been thoroughly removed with potable water with no remaining soapy residue or cement slurry
- DO NOT USE [Smith's Green Clean Pro](#) on "Green" new concrete less than 30 days old, smooth / hard trowel finished or previously sealed / coated / painted concrete to include any type of curing compound

Typical Chemical Resistance

EXPOSURE	CONCENTRATE	DILUTED (10%)
Acids	Good	Excellent
Alkalis	Excellent	Excellent
Solvents		
Aliphatic	Good	Good
Aromatic	Good	Good
Ketones	Poor	Poor
Salt	Excellent	Excellent
Water	Excellent	Excellent

*Please refer to the chemical resistance of the final wear surface sealer or topcoat applied over Smith's Color Floor for more specific chemical & stain resistance information

NECESSARY TOOLS & EQUIPMENT:

- Plastic Sheeting or Ram Board to cover floor for mix station
- Planetary Floor Grinder with appropriate CFM vacuum (for interior projects or to remove existing adhesives, weak surface, thin-set mortar, etc.)
- Orbital, High Speed Floor Machine/Buffer (1,500 to 3,000 RPM)
- Pressure Washer with Zero Degree rotating nozzle
- Paint Stir Sticks
- Measuring Cups
- Vinyl or solvent resistant Masking Tape
- White Rags (for clean-up)
- 5 gallon Plastic Mixing Buckets
- Sprayer (e.g. HVLP or airless)
- Premium, Non-Shed, solvent-resistant Paint Roller Covers
 - 3/8" nap for flat, relatively smooth surfaces
 - 1/2" nap for knockdown, skip trowel or mild stamped concrete textures
 - 3/4" for heavy stamped concrete textures
- Paint Roller Frames
- Threaded Extension pole (for Paint Roller Frames)
- Water (Distilled, Deionized, or Reverse Osmosis water)



These instructions are not intended to show product recommendations for specific service. This data sheet is issued as an aid in determining correct surface preparation, mixing instructions & application procedures. Instructions should be followed closely to obtain the maximum service from the coatings.

AREA PREPARATION: Be sure to mask or cover all areas that are not intended to be stained including but not limited to door frames, doors, walls & windows.

SURFACE PREPARATION: Whether new or old concrete, the surface preparation phase of "Staining a Concrete Floor" should be viewed as the most important.

Proper floor preparation results in the stains longevity, minimizes potential failures, creating the best environment for an aesthetically pleasing work of art. In short, the more detail & time allotted to this phase of the project will dramatically affect the appearance & durability of the finished floor.

The surface must be free of all foreign materials that would inhibit absorption of Smith's Color Floor stain. Foreign materials include, but are not limited to grease, dirt, glue, previous coatings & sealer*.

***Smith's Color Floor can be applied to previously sealed surfaces. The process is described in "Previously Sealed Surfaces"**

****Do NOT Acid Etch as a cleaning method.**

*****Surface preparation is required for both newly cured & old concrete**

HORIZONTAL APPLICATION:

[Exterior \(Click for video\)](#) –
Broom finish

Prepare using Pressure Washer &



- 1) Broom finishes may result in high profiles or peaks in the substrate which erode faster than the remaining substrate
 - Remove these unstable sections by simply running an ice scraper or other metal object over the substrate
 - Extract debris from substrate
 - This step will enhance the longevity & durability of the install
 - 2) Remove paint, adhesives & loose particulates from the intended application surface
 - 3) Liberally apply [Smith's Green Clean Pro](#) to a 20 ft. x 20 ft. section of the substrate using a 1/2 inch nap roller cover
 - 4) Allow [Smith's Green Clean Pro](#) to dwell / remain on the substrate for 20 minutes
 - Ensure the surface remains wet for the entire 20 minutes by misting with water, if necessary
 - 5) 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
 - 6) Extract material utilizing a wet/dry vacuum or lower the squeegee uptake bar on the auto-scrubber
 - Continue to flush & agitate the substrate until the rinse water is clear & surface is free of residue
 - 7) Remove [Smith's Green Clean Pro](#) from the surface using a power washer* with overlapping line patterns
 - * Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)
 - 8) Allow the area to dry adequately before performing a tape test
 - 9) Upon the completion of a successful Test begin the application of Smith's Color Floor stains
- If additional profile is desired, reapply [Smith's Green Clean Pro](#) following the previous directions starting at 3.

***Interior – use of power wash is not applicable. See Grinding section**



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Diamond Grinding (click for video) –

- 1) 1st Pass = 40 grit metal bonded diamonds (or comparable) if the surface requires (e.g. adhesives, profile irregularities)
- 2) 2nd Pass = 150 grit metal bonded diamonds (or comparable)
- 3) Inspect substrate for scratch patterns created by the grinding process
 - a) If a scratch pattern exists, continue the grinding process by increasing the grit of the diamond
 - b) Wet grinding must be used with resin bond / transition / ceramic diamonds to avoid residue transfer to the substrate

Dry Grinding –

- 4) Vacuum thoroughly to remove excess dust & debris
- 5) Use a micro-fiber pad to remove remaining dust & particulate making a minimum of 3 to 4 passes over the substrate with a new/clean micro-fiber mop per pass to remove residual dust
 - 6) The use of an auto-scrubber with disk brush attachment in conjunction with clean, potable water can also be used to extract particulate
- a) Continue to clean substrate until extracted water is clear

Wet Grinding –

- 4) Remove slurry from floor via wet vacuum or auto scrubber with disk brush attachment in conjunction with clean water
- 5) Continue to clean substrate until extracted water is clear

Check if Preparation is Sufficient –

- 6) Perform Tape Test, see next paragraph, once surface is prepared, clean & dry
- 7) Next, check absorption per [ASTM F3191](#) to ensure a water droplet darkens & begins to soak into the concrete within 1 minute after being dripped onto the surface
 - a) Refer to ICRI Guideline 310.2R2013 for more in-depth preparation details & recommendations

Tape Test – A tape test will help determine the effectiveness of the cleaning process. After the floor has been thoroughly scrubbed, rinsed & allowed to dry; apply several 18 inch long strips of high quality 2 inch width clear packaging tape to various locations on the substrate.

Aggressively press the tape onto the floor with the heel of your hand. Fold one end of the tape into itself then pull it off of the floor as vigorously as possible. Examine the adhesive layer in a bright light looking for residue that was pulled from the floor.

Little to no dust or other foreign particles should be visible. Areas with visible foreign material need to be scrubbed & rinsed again until the surface is free of these contaminants.

DILUTION / MIXING: Smith's Color Floor is supplied as a concentrate.

The recommended dilution ratio for base colors applied to concrete is 1 part concentrate to 2 parts Smith's Base Boost to 2 parts distilled, deionized, or reverse osmosis water.



VOLUME MIX RATIO

1 Part WATERBORNE CONCRETE STAIN
COLOR FLOOR to 2 Parts BASE BOOST to 2 Parts Water

OR

1 Part WATERBORNE CONCRETE STAIN
COLOR FLOOR to 4 Parts Water

For application of highlight colors, overlay systems or previously coated substrates utilize 1 part concentrate to 4 parts distilled, deionized or reverse osmosis water.

Diluting the stain concentrate will result in a ready-to-use stain by simply stirring mixture.

NOTE: "Hard" water has an adverse effect on Smith's Color Floor. Therefore, in order to achieve maximum service distilled, deionized or reverse osmosis water is recommended.

Thinning – The recommended dilution ratio for Smith's Color Floor can be found in Dilution/Mixing section.

Increased transparency as well as lighter color shade can be achieved by increasing the dilution ratio (amount of water to concentrate).

The dilution ratio should not surpass 1 part concentrate to 8 parts distilled, deionized or reverse osmosis water.

Note: As dilution ratio increases, the amount of vehicle solids (glue) decreases resulting in a less durable stain.

High Hide – Decreasing the dilution ratio of the Classic Series (e.g. 1 part concentrate to 1 part water) will increase hide or opacity. This allows the applicator to cover stains as well as achieve uniformity on different integrally colored surfaces.

APPLICATION INSTRUCTIONS:

	Material	Surface	Ambient	Humidity
Best	60°F to 90°F 15°C to 32°C	65°F to 85°F 18°C to 30°C	65°F to 90°F 18°C to 32°C	10 to 60%
Minimum	45°F 7.2°C	45°F 7.2°C	45°F 7.2°C	0%
Maximum	105°F 40.5°C	110°F 43°C	110°F 43°C	80%



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Application Method – To achieve a natural variegate appearance, Smith's Color Floor should be applied by creating a fine mist via an airless sprayer, High Volume Low Pressure (HVLV) sprayer, production gun, pump sprayer or trigger spray bottle. Variegation is the result of the specific gravities of the pigments as well as the absorption rate of the application surface.



Roller application forces absorption resulting in mechanical lines.

When spraying, use a 5-13 spray tip airless spray tip which yields a 10" to 12" fan width using a 0.013-inch orifice.



Brush / Sea Sponge Application – For application areas where coverage & product control is warranted, apply Smith's Color Floor with a sea sponge or traditional bristle brush (e.g. corners & walls). **Using this application method may result in the appearance of mechanical lines.**

Secondary / Highlight Color – To increase color depth or mottled appearance, a secondary or highlight coat can be applied as soon as initial Smith's Color Floor color is dry to the touch (approximately 15 minutes).

NOTE: All Smith's Color Floor Colors are compatible, thus can be mixed, sprayed simultaneously & layered to achieve the desired appearance.

Previously Sealed Surfaces – After cleaning the previously sealed surface, apply Smith's Color Floor via an airless sprayer or HVLV (this application will atomize the stain) to a small, out of the way test section of the sealed surface. Allow the stain to dry (15 to 20 minutes). Test for adhesion by running your hand over the stained surface.

If you are unable to rub the stain off, the stain has achieved adhesion. Apply Smith's Color Floor stain to the remaining areas. Allow a 24 hour drying period before applying a clear sealer over Smith's Color Floor.

DRY TIMES (optimal):

TEMPERATURE	AMBIENT HUMIDITY	DRY TO TOUCH	APPLY SEALER
70°F / 21°C	30%	15 to 20 min.	24 hours

NOTE: High humidity & lower temperatures will lengthen dry & cure times. Dry time can be shortened by increasing temperature & airflow. Proper adhesion will develop with 24 hour cure time.

CLEAN UP: Immediately clean-up work area & tools with water while stains are still wet.

Acetone may be used to remove recently applied Smith's Color Floor that may have dried on spray tips or on an unintended surface & is no longer wet. Test surface to ensure the solvent will cause no damage.



SEALERS: Once cured, apply a sealer recommended for the intended traffic / environment. Smith Paint Products a variety of different film forming sealers & topcoats depending on the conditions & sheen desired. Please visit www.smithpaints.com for more information on film forming sealers as well as traction additives.

FLOOR PROTECTION: Use paper and/or cardboard to protect stained & sealed floor from other trades or during a move.

Avoid applying temporary tape to sealed surfaces for at least 30 days. Only use masking tape intended for delicate surfaces, such as an automotive masking tape or similar releasable tape making sure to remove within the tape manufacturer's recommended releasable time frame for their tape as the adhesive may damage the surface if applied before the film is tapeable or remains on the surface too long especially if the tape is applied in direct sunlight, becomes damp, etc.

Do not use other types of tape, such as Gaffer, Duct, Vinyl, etc. over stains, sealers, paint, etc.

MAINTENANCE: The coating system must be allowed to cure for no less than one week before using any mechanical cleaning equipment (i.e. auto-scrubbers, swing buffers, sweepers, etc.) on the surface to include neutral cleaner or water exposure. Only dust & wet mopping may occur the first week.

Dust mopping, removal of debris & regular cleaning is crucial to maintaining the aesthetics of the coating & obtaining the maximum life span of the floor coating system. Cleaning cannot occur too often & inefficient cleaning will cause the floor to wear out prematurely & 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 & lessen the sheen.

To maximum your investment with proper floor care & maintenance, remove all particles that may scratch and/or dull the floor coating using the least aggressive method necessary to clean the floor.

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

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

DETERGENT: Always use the least aggressive detergent necessary to remove the residue, such as a neutral pH detergent for general purpose cleaning. Use [Smith's Oil Clean](#), or similar degreaser, for more degreasing & heavy duty weekly or monthly cleaning.

Caution: Do not drag or drop heavy objects across any floor as scratching, gouging or chipping may occur to the concrete or the coating itself.

Avoid spinning tires on a coated floor surface as the heat created from the friction of a spinning tire will quickly soften the coating causing permanent damage.

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 & high-performance car tires. Plasticizer will stain coatings & commercial flooring leaving an amber to yellow-like stain that may be permanent. This can be more noticeable where aircraft or vehicles are stationary for longer periods of time, more so in non-climate-controlled environments such as aircraft hangars 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 & the contact point of the tire when storing rubber-tired vehicles on any floor, including floor coating systems. Some tire stains can be removed if cleaned before a set-in stain occurs using a d-Limonene based degreaser with mild agitation via an orbital, low speed floor machine.

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