

Smith's COLOR FLOOR & COLOR WALL



White
CF/CW-100



Natural
CF/CW-110



Antique Gray
CF/CW-120



Gray
CF/CW-130



Black
CF/CW-140



Patina
CF/CW-160



Moss Green
CF/CW-170



Olive Green
CF/CW-180



Yellow Ochre
CF/CW-200



Sandstone
CF/CW-210



Pottery
CF/CW-220



Mauve
CF/CW-225



Terra Cotta
CF/CW-230



Mars Red
CF/CW-240



Desert Sand
CF/CW-250



Light Adobe
CF/CW-260



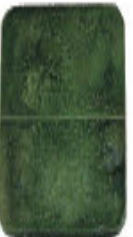
Dark Adobe
CF/CW-270



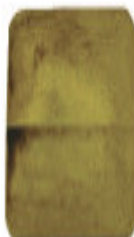
Bark Brown
CF/CW-280



Dark Chocolate
CF/CW-290



Sea Foam
CF/CW-560



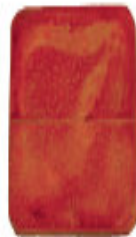
Loden
CF/CW-570



Honey
CF/CW-600



Amber
CF/CW-630



Red Clay
CF/CW-640



Fawn
CF/CW-700



Nutmeg
CF/CW-710



Purple
CF-900



Ocean Blue
CF-910



Deep Aqua Green
CF-920



Green
CF-930



Yellow
CF-940



Orange
CF-950



Red
CF-960

Classic Series
(Semi-transparent)

Old World Series
(Transparent)

Bright Lights Series
(High Chroma)

Product Information

Generic Type: Waterborne acrylic

General Properties: A decorative stain for concrete surfaces. Smith's Color Floor is water submersible, alkali, weather and UV light resistant. These stains require a top coat and are compatible with solvent based, water-based, single and two component products, including but not limited to urethanes, acrylics and epoxy clear sealers.
Warning: Smith's Color Floor is not compatible with Methyl Methacrylate or penetrating (e.g. sodium silicate) sealers.

- Compatible with neutralized acid-based stains
- Compatible with overlays, as a topical stain and as integral color
- May be applied over previously sealed surface
- Low Odor And Fast Air Dry
- Overnight Deliverable — no Red Label
- Low VOC
- Interior and Exterior application

Recommended Use: A user-friendly stain for concrete floors and other porous substrates. May be applied over sealed surfaces (refer to Application Instructions).

Not recommended for: Non-porous substrates (e.g. metal, resin, fiberglass) when submerged in water or exposed to severe cold weather conditions.

Colors: Three different "Series" give the applicator a wide range of effects that they may obtain. All the colors in the Color Floor line are totally compatible with one another in both the dry and wet stage.

Classic Series: can be used for applications that range from high hide to transparent variegated appearance.

Old World Series: remain transparent even with multiple coats appear very similar to acid stains.

Bright Light Series: are high-chroma, intense colors for accenting or artistic differentiation.

Color Retention: All the colors formulated for Smith's Color Floor have been specially selected to produce the most durable lightfast & alkali resistant coatings available:

Pigment	Alkali Resist.	Ultra-violet Light Resist.
Carbon Black	Excellent	Excellent
Titanium White	Excellent	Excellent
Iron Oxide	Excellent	Excellent
Phthalo Blue	Excellent	Excellent
Phthalo Green	Excellent	Excellent

Typical Chemical Resistance:

Exposure	Concentrate	Dilute (10%)
Acids	Good	Excellent
Alkalis	Excellent	Excellent
Solvents		
Aliphatic	Good	Good
Aromatic	Good	Good
Ketones	Poor	Poor
Salt	Excellent	Excellent
Water	Excellent	Excellent

Taber Abrasion Resistance Test ASTM D 4060-95:

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

* Citric acid Cleaner was used in surface preparation for concrete plaque samples.

Solids Content: Smith's Color Floor (as supplied) 30% ± 2% By Volume

Volatile Organic Content:		Calculated EPA Method 24	Per Actual Gallon
As supplied	lbs/gal	1.19 - 1.4	0.43 - 0.45
	g/l	142.6 - 164.5	50.9 - 54
Diluted Stain	lbs/gal	1.19 - 1.4	0.083 - 0.088
	g/l	142.6 - 164.5	9.97 - 10.5

Recommended Dry Film Thickness per Coat: <1 mil

Coverage per Diluted Gallon: 250-400 square feet
Note: Coverage depends on surface porosity, profile and desired appearance.

Storage Conditions And Shelf Life: @40-110°F / Unopened Container - 4 year / Opened Containers - 24 month / Diluted - 3 month

Color: See Color Chart. **Gloss:** Eggshell **Flash Point:** >212°F

Application Information

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 results from the products.

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 and windows.

Surface Preparation: 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 and creates the best environment for an aesthetically pleasing work of art. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance and durability of the finished floor.

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

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

Do not use an acid etch as a cleaning method.

Horizontal Application:

Exterior – Broom Finish

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 and durability of the install.
2. Apply Smith's Green Clean following the instructions for Exterior & Interior

Exterior & Interior

1. Remove paint, adhesives and loose particulates from the intended application surface.
2. Liberally apply Smith's Green Clean to a 20 x 20 foot section of the substrate with 1/2 inch nap roller cover.
3. Allow the gel to remain on the substrate for 20 minutes. Interior use of power wash is not applicable.
4. Agitate Smith's Green Clean utilizing a floor buffer (small area) or an auto-scrubber (large area) equipped with brush attachments while rinsing with clean water.
5. Extract material utilizing a wet/dry vacuum or lower the squeegee uptake bar on the auto-scrubber. Continue to flush and agitate the substrate until the rinse water is clear and surface is free of gel residue.

Areas that can be pressure washed:

6. Remove Smith's Green Clean from the surface using a power washer* with overlapping line patterns.
7. Allow the area to dry adequately before performing a Tape Test. Upon the completion of a successful Test begin the application of Smith's Stains.

* Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)

* Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)

Note: If additional profile is desired, reapply Smith's Green Clean following the previous directions.

Grinding:

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

Dry Grinding:

3. Remove excess dust with vacuum.
4. Remove remaining dust and particulate with micro-fiber pad. A minimum of 3-4 passes over the substrate with a new/clean micro fiber mop per pass will remove residual dust. The use of an auto scrubber with brush attachment in conjunction with clean water can also be used to extract particulate. Continue to clean substrate until extracted water is clear.

Wet Grinding:

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

Perform Tape Test once substrate is prepared and dry.

Tape Test

A tape test will help determine the effectiveness of the cleaning process. After the floor has been thoroughly scrubbed, rinsed and allowed to dry; apply several 1 foot strips of high quality 2" packaging tape to various locations on the floor. Aggressively press the tape onto the floor with the heel of your hand. Fold one end of the tape into itself and 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 and rinsed again until the surface is free of these contaminants.

Dilution/Mixing: Smith's Color is supplied as a concentrate. The recommended dilution ratio for base colors applied to concrete is 1 part concentrate to 2 parts Base Boost to 2 parts distilled, deionized, or reverse osmosis 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. Concentrate will result in ready to use stain by simply stirring mixture.

Note: "Hard" water has an adverse affect 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 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 and blemishes as well as achieve uniformity on different surfaces.

Application Directions:

	Material	Surface	Ambient	Humidity
Best	60-90°F	65-85°F	65-90°F	10-60%
Minimum	45°F	45°F	45°F	0%
Maximum	105°F	110°F	110°F	80%

Application Method: To achieve a natural variegated appearance, Smith's Color Floor should be applied by creating a mist via an airless sprayer, High Volume Low Pressure (HVLP) sprayer, production gun, pump sprayer or trigger spray bottle. The variegation is the result of the specific gravities of the pigments as well as the absorption rate of the application surface. Roller application methods force absorption resulting in mechanical lines.

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

Secondary/Highlight Color: To achieve 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 and layered to achieve a desired appearance.

Previously Sealed Surfaces: After cleaning the previously sealed surface, apply Smith's Color Floor via an airless sprayer or HVLP (this application will atomize the stain) to a small, out of the way test section of the sealed surface. Allow the stain to dry (15-20 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	Relative Humid	Dry to the Touch	Final Cure/Sealer Coat 24 hours (recommended)
70°F	30%	15-20 min	

Note: Cool temperatures and high humidity and lower temperatures will lengthen dry and cure times. Dry time can be shortened by increasing temperature and air flow. Proper adhesion will develop with 24 hour cure time.

Clean Up: Immediately clean up work area and tools with water while stains are still wet.

Floor Protection: Use paper and/or cardboard to protect stained and sealed floor from other trades or during a move. Do not use tape on a sealed surface until sealer is fully cured. A good rule is 30 days for a sealer to fully cure.

Product Information

Generic Type: Blended silicate solution.

General Properties: Smith's Base Boost is an additive for Smith's Color Floor and Smith's Color Wall which promotes substrate adhesion for base or primary colors as well as increases durability of the stains. Smith's Color Floor and Color Wall stains already achieve superior mechanical adhesion as a result of their modified acrylic carrier, but adding Base Boost into the Smith's Concentrate produces an additional bond by reacting with the unreacted calcium hydroxide found in the concrete substrate.

- No VOC
- Increased durability
- Biodegradable
- Low Odor
- Overnight Deliverable — no Red Label

Recommended Use: Additive or primer for the primary or base color of Smith's Color Floor or Color Wall installation.

Not recommended for: Application to overlay systems, previously coated substrates or use in highlight colors.

Color: Clear liquid

Solids Content: Smith's Base Boost 10% ± 2%

Coverage per Gallon: As a primer, 250 square feet. As an additive, 500 square feet per gallon.

Note: Coverage depends on surface porosity, profile and application method.

Storage Conditions: 40-90 °F

Shelf Life:

Unopened Container 1 year
Opened Containers 2 months

Application Instructions

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 results from the products.

Important: If the intended application area has residual of a previous coating (e.g. paint, sealer) or was treated with a silicate, do not use Smith's Base Boost. Do not use for application to micro-toppings or overlay systems

Area Preparation: Be sure to mask or cover all areas that are not intended to be stained or treated with Smith's Base Boost including but not limited to door frames, doors, walls and windows.

Surface Preparation: 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 and creates the best environment for an aesthetically pleasing work of art. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance and durability of the finished product. The surface must be free of all foreign materials that would inhibit the absorption of the combination Smith's Color Floor/Color Wall stain with the Smith's Base Boost. Foreign materials include, but are not limited to grease, dirt, glue, and previous coatings. Do not use a muriatic acid etch as a cleaning method.

Horizontal Application: Exterior – Broom Finish

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 and durability of the install.
2. Apply Smith's Green Clean following the instructions for Exterior & Interior

Exterior & Interior

1. Remove paint, adhesives and loose particulates from the intended application surface.
2. Liberally apply Smith's Green Clean to a 20 x 20 foot section of the substrate with ½ inch nap roller cover.
3. Allow the gel to remain on the substrate for 20 minutes.
Interiors — use of power wash is not applicable:
4. Agitate Smith's Green Clean utilizing a floor buffer (small area) or an auto-scrubber (large area) equipped with brush attachments while rinsing with clean water.
5. Extract material utilizing a wet/dry vacuum or lower the squeegee uptake bar on the auto-scrubber. Continue to flush and agitate the substrate until the rinse water is clear and surface is free of gel residue.
Areas that can be pressure washed:
6. Remove Smith's Green Clean Cleaning from the surface using a power washer* with overlapping line patterns.

7. Allow the area to dry adequately before performing a Tape Test. Upon the completion of a successful Test begin the application of Smith's Stains.

* Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)

Note: If additional profile is desired, reapply Smith's Green Clean following the previous directions.

Grinding:

1. First Pass = 40 grit metal bonded diamonds if the surface requires (e.g. adhesives, profile irregularities)
2. Second Pass = 150 grit metal bonded diamonds.
3. Remove excess dust with vacuum.
4. Remove remaining dust with dry mop or wet mop until floor is completely free of foreign materials and dust.

Vertical Application:

1. Open the pores of the surface via power washing*. Use a parallel overlapping line pattern to insure a properly cleaned surface.

*Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)

Tape Test: A tape test will help determine the effectiveness of the cleaning process. After the substrate has been cleaned and allowed to dry; apply several 1 foot strips of high quality 2" packaging tape to various locations on the surface. Aggressively press the tape onto the substrate with the heel of your hand. Fold one end of the tape onto itself and pull it as vigorously as possible. Examine the adhesive layer in a bright light looking for residue that was pulled from the surface. Little to no dust or other foreign particles should be visible. Areas with visible foreign material need to be scrubbed and rinsed until the surface is free of these contaminants.

Dilution/Mixing: Smith's Color Floor or Color Wall is supplied as a concentrate. The recommended dilution ratio is 1 part Smith's Color concentrate, 2 parts Smith's Base Boost to 2 parts distilled, deionized or reverse osmosis water. Thorough mixing will result in ready to use stain.

Note: Our research has shown that "hard" water (water with excess amount of magnesium, calcium and various other charged ions) has an adverse affect on Smith's Color Floor and Color Wall resulting in less than optimal adhesion and longevity. Furthermore, we have found that water is not consistent over time, even from the same source. 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/Color Wall with Base Boost 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 added). The dilution ratio should not surpass 1 part Smith's Color concentrate, 4 parts Base Boost to 4 parts distilled, deionized or reverse osmosis water.

High Hide: Apply Smith's Base Boost directly to the substrate via roller application. Decreasing the dilution ratio (e.g. 1 part concentrate to 1 part water) will increase hide or opacity of Smith's Color Floor/ Color Wall – Classic Series. This allows the applicator to cover blemishes as well as achieve uniformity on different integrally colored surfaces.

Application Directions:

	Material	Surface	Ambient	Humidity
Best	60-90 °F	65-85 °F	65-90 °F	10-60%
Minimum	45 °F	45 °F	45 °F	0%
Maximum	105 °F	110 °F	110 °F	80%

Application Method: To achieve a natural variegated or mottled appearance, Smith's Stain with Base Boost should be applied by creating a mist via an airless sprayer, high volume low pressure (HVLP) sprayer, production gun, pump sprayer or trigger spray bottle. A variegated or natural finish is achieved through the various absorbencies of the surface material as well as the accumulation of the color pigments. Roller application methods force absorption of the diluted stain resulting in mechanical lines. For High Hide applications, the use of a roller results in a more monotone or painted appearance.

Brush/Sea Sponge Application: For application areas where coverage and product control is warranted, apply Smith's Stain with Base Boost using a sea sponge or traditional bristle brush (e.g. corners and faux finishes). Using this method of application may result in the appearance of mechanical lines.

Do not add Smith's Base Boost when applying secondary/highlight color: To achieve increased color depth or mottled appearance. A secondary or highlight color can be applied as soon as initial Smith's Stain with Base Boost is dry to the touch (approximately 15 minutes). DO NOT add the Smith's Base Boost to Smith's Color Floor/Color Wall for secondary or highlight colors. Note: Smith's Base Boost should only be used for base colors. Secondary or Highlight colors should not have the Smith's Base Boost added to the Smith's Concentrate.

Dry Times: (optimal)

Temp	Relative Humid	Dry to the Touch	Final Cure/ Sealer Coat
70 °F	30%	20-30 min	24 hours

Note: Cool temperatures and high humidity will lengthen dry and cure times. Dry time can be shortened by increasing temperature and air flow. Adhesion and coating strength will develop with time.

Clean Up: Immediately clean up work area and tools with water while Smith's Stains are still wet.

Product Data Sheet

Generic Type: Gel Cleaner

General Properties: a non-corrosive biodegradable gel developed to prepare a concrete substrate by producing a moderate surface texture. Green Clean is the next generation in surface preparation

- Produce a moderate texture on machine troweled concrete
- Biodegradable
- User friendly
- Non-corrosive
- Low Odor
- Overnight Deliverable — no Red Label

Recommended Use: Preparation of a concrete surface for the application of Smith's Color Floor, Color Wall and Color Accents.

Not recommended for: Coating removal including paint, sealer and other film forming products.

Color: Smith's Green Clean is supplied in a green hue.

Solids Content: Smith's Green Clean 40.2% ± 1% By Weight

Recommended Film Thickness per Application:

Liberally apply at approximately 4-5 mils thickness

Coverage per Gallon: 250 square feet

Note: Coverage depends on surface porosity, profile and application method.

Storage Conditions: 40-90°F

Shelf Life:

Unopened Container 6 months

Opened Containers 3 months

Flash Point: Smith's Green Clean >212°F (100°C)

Application Instructions

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 result from the products.

Area Preparation:

Be sure to mask or cover all areas that are not intended to be prepared with Smith's Green Cleaner.

Surface Preparation:

The surface preparation phase of "Staining a Concrete Floor" should be viewed as the most important. Proper floor preparation results in the product's longevity, minimizes potential failures and creates the best environment for an aesthetically pleasing work of art. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance and durability of the finished floor.

1. Remove paint, adhesives and loose particulates from the intended application surface.
2. Liberally apply Smith's Green Clean to a 20 x 20 feet section of the substrate with 1/2 inch nap roller cover.
3. Allow gel to remain on the substrate for 20 minutes.
4. For exterior application, utilize a 12,000 work units* pressure washer in conjunction with a 0 degree rotating nozzle to remove the Smith's Green Clean with overlapping line patterns. For interior surface preparation, agitate Smith's Green Clean 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.
5. Allow surface to dry.
6. Perform a "Tape Test".

* Work Units = Gallons per Minute x PSI

Note: If additional profile is desired, reapply Smith's Green Clean following the previous directions.

Tape Test

A tape test will help determine the effectiveness of the cleaning process. After the floor has been thoroughly scrubbed, rinsed and allowed to dry; apply several 1 foot strips of high quality 2" clear packaging tape to various locations on the floor.

Aggressively press the tape onto the floor with the heel of your hand. Fold one end of the tape into itself and 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 rinsed again until the surface is free of these contaminants.

Dilution:

Do not dilute Smith's Green Clean. The product's viscosity (thickness) enables optimal results for this cleaning process.

Warning: Applying a thin coat of Smith's Green Clean will not achieve proper surface preparation, rather will result in the Green Clean drying on the surface creating a potential bond breaker.

Application Directions:

	Material	Surface	Ambient	Humidity
Best	60-90°F	65-85°F	65-90°F	10-60%
Minimum	45°F	45°F	45°F	0%
Maximum	105°F	110°F	110°F	80%

Note: Lower temperature will result in a longer time period for Smith's Green Clean to achieve the proper surface profile.

Application Method:

As supplied, Smith's Green Clean is applied via 1/2 – 3/4 inch nap cover on a roller cage.

Clean Up:

Immediately clean up work area and tools with water.