



Product Data Sheet

CW-PDS-07152026

VERTICAL CONCRETE STAIN COLOR WALL™

Low Sheen, Natural Appearance Waterborne Concentrated Acrylic Concrete & Masonry Stain

DESCRIPTION: Smith's Color Wall™ is a semi-transparent decorative breathable protective stain for vertical porous concrete & masonry surfaces which are water submersible, alkali, weather & U.V. light resistant making them ideally suited for creating realistic rockscapes as well as natural color for retaining walls.

Smith's Color Wall stains incorporate high pigment solids for easily controlled color depth while achieving a more natural, satin appearance versus traditional concrete stain products.

Smith's Color Wall accepts (Optional) [Smith's Base Boost™ additive](#) for initial bare concrete staining for more uniform coverage & absorption to smooth cast concrete or as an alternative, prime smooth cast concrete surfaces with (Optional) [Smith's Pre-Coat Polymer™](#) prior to staining. To improve the ability to remove mineral build-up from water features as well as improve resistance to wear & water erosion, apply (Optional) [Smith's Poly-SEAL+™ Low Sheen](#).

RECOMMENDED USE:

- Interior & Exterior use
- For use over:
 - Concrete & Masonry - including but not limited to:
 - Porous Concrete
 - Plaster
 - Stucco
 - Natural Stone
 - Terra Cotta
 - Brick
 - 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
- Not compatible with Methyl Methacrylate nor penetrating sealers

HIGHLIGHTS:

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

COLORS: Three different "Series" give the applicator a wide range of effects that they may obtain. All the colors in Smith's Color Wall 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 stain layers with Smith's Color Wall)	Tack Free to Infinite
Light Rain Exposure (no bleed)	60 to 90 minutes
Foot Traffic	60 minutes
Sealing / Topcoating - Waterborne - Solvent-based	≥4 hours (24 hours best practice) 24 hours
Heavy Traffic (i.e. Planters, parked vehicles, etc.)	Sealer / topcoat dependent (See sealer / topcoat product data sheet)
Water Submersible (Sealed with Smith's Poly-SEAL+ Low Sheen)	7 days

*Allow longer cure time at cooler application temperatures

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 Level		Low Sheen (*If sealed, 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 Wall are comparable to acid-based stain. Full report of Architectural Testing, Inc.'s Taber Abrasion Resistance Test is available upon request.

COLOR RETENTION: Pigments used in these formulas were 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 ÷ milage = 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 ft² (3.25 to 4.65 m²)
1 quart (0.95 L)	1.25 gallons (4.73 L)	250 to 400 ft² (23 to 37 m²)
1 gallon (3.78 L)	5 gallons (18.93 L)	1,000 to 1,600 ft² (93 to 148 m²)
5 gallons (18.9 L)	25 gallons (94.64 L)	5,000 to 8,000 ft² (465 to 743 m²)



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LIMITATIONS:

- 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 Wall
 - 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 hand 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 exceed 125°F / 51.7°C surface temperature
- Surface preparation is required for both newly cured & old, existing concrete
 - New concrete also requires proper curing prior to application
- Traffic bearing & water submersed surfaces must be sealed or topcoated with an appropriate product, such as [Smith's Poly-SEAL+ Low Sheen](#)
- 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
- DO NOT SEAL with a penetrating sealers when Smith's Color Wall is applied as a traditional stain since penetrating sealers cannot absorb through this stain

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 Wall for more specific chemical & stain resistance information

NECESSARY TOOLS & EQUIPMENT:

- Plastic Sheeting or Ram Board to cover floor for mix station
- 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" should be viewed as the most important.

Proper 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 appearance & durability.

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

*Smith's Color Wall 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 \(Click for video\)](#) – [Smith's Green Clean Pro](#) can be used to create texture in the substrate in addition to preparation & cleaning of mineral based substrates.

For surface preparation, the directions are as follows:

- Remove paint, adhesives & loose particulates from the intended application surface
- Liberal 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
- 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
- Agitate [Smith's Green Clean Pro](#) utilizing a nylon brush while rinsing with clean potable water
- Open the pores of the surface via power washing*.
 - Use a parallel overlapping line pattern to ensure a properly cleaned surface

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

- 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 scrapper or other metal object over the substrate
 - Extract debris from substrate
 - This step will enhance the longevity & durability of the install
- Remove [Smith's Green Clean Pro](#) from the surface using a power washer* with overlapping line patterns
- Allow the area to dry adequately then perform a tape test & absorption test to confirm successful preparation (See Next Page for testing description)

*Refer to ICRI Guideline 310.2R2013; ISO 8505-3; ASTM D4261, D4258, & D4260 for more in-depth preparation details & recommendations

Should additional profile be desired, reapply [Smith's Green Clean Pro](#) following the previous directions starting at 2 above.



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Check if Preparation is Sufficient –

- 1) Perform Tape Test, see next paragraph, once surface is prepared, clean & dry
- 2) 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

*Refer to ICRI Guideline 310.2R2013, ISO 8505-3, ASTM D4261, ASTM D4258, ASTM D4260 for more in-depth preparation details & recommendations

Tape Test – A tape test will help determine the effectiveness of the cleaning process. After the substrate 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 substrate with the heel of your hand. Fold one end of the tape into itself then pull it off of the substrate 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 & rinsed again until the surface is free of these contaminants.

DILUTION / MIXING: Upon the completion of successful tape & absorption testing begin the application of Smith's Color Wall stain.

Smith's Color Wall stain 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.

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

VOLUME MIX RATIO

1 Part to 2 Parts to 2 Parts
COLOR WALL BASE BOOST Water

OR

1 Part to 4 Parts
COLOR WALL Water

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

NOTE: "Hard" water has an adverse effect on Smith's Color Wall. Therefore, mixing with distilled, deionized or reverse osmosis water is recommended to achieve maximum service & durability

Thinning – The recommended dilution ratio for Smith's Color Wall 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 Smith's Color Wall Classic Series (e.g. 1 part concentrate to 1 part water) will increase hide or opacity. This allows the applicator to better hide substrate discoloration & shading irregularities 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%

Application Method – To achieve a natural variegate appearance, Smith's Color Wall should be applied by creating a fine mist via an airless sprayer, High Volume Low Pressure (HVLP) sprayer, production gun, pump sprayer or trigger spray bottle. Variegation or natural appearance is achieved through the various absorbencies of the surface material as well as the accumulation of the color due to the specific gravity of the pigments in the stain.



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 Wall 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 Wall color is dry to the touch (approximately 15 minutes).

NOTE: All Smith's Color Wall 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 Wall 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 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 Wall stain to the remaining areas. Allow a 24 hour drying period before applying a clear sealer over Smith's Color Wall.

DRY TIMES (optimal):

TEMPERATURE	AMBIENT HUMIDITY	DRY TO TOUCH	APPLY SEALER
70°F / 21°C	30%	15 to 20 min.	≥4 hours (waterborne) ≥24 hours (solvent-based)

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



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SEALERS (OPTIONAL): Once cured, apply a sealer recommended for the intended 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, such as [Smith's Surface Guard™ Low Sheen](#), [Smith's Poly-Seal+ Low Sheen](#) or [Smith's Poly-WB+ Low Sheen](#).

MASKING: Use paper and/or cardboard to protect stained & sealed surfaces from other trades.

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.

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