

GENERAL DESCRIPTION

Perma-Crete Color Seal WB Interior / Exterior water borne, acrylic concrete stain 4-4210XIC series is a film forming, tintable, ideal for use on interior/exterior, above-ground, vertical and horizontal surfaces. This fast drying stain is water and chemical resistant. *Color Seal* WB Concrete Stain has good adhesion and is hot tire resistant. This low odour product seals the surface and improves the appearance of the substrate by adding colour and durability. *Perma-Crete Color Seal* WB is ideal for use on concrete surfaces such as garage floors, driveways, pool decks, walkways, patios, porches, warehouse floors and more.

RECOMMENDED SUBSTRATES

Brick	Concrete
Concrete Block (CMU)	Exposed Aggregate
Masonry	Non-Glazed Ceramic Tile
Stone	

**See "Limitations of use"*

CONFORMANCE STANDARDS

- Complies with the Canadian Volatile Organic Compound Concentration Limits for Architectural Coatings Regulations.

TINTING AND BASE INFORMATION

Refer to the appropriate colour formula book, automatic tinting equipment, and/or computer colour-matching system for colour formulas and tinting instructions.

4-4210XIC	White & Pastel Base
4-4220XIC	Midtone Base*
4-4240XIC	Ultra Deep Base*

**Must be tinted before use.*

Some colours, drastic colour changes, or porous substrates may require more than one coat to achieve a uniform finish.

PACKAGING

3.78 L & 18.9 L

Not all products are available in all sizes.

PRODUCT DATA

PRODUCT TYPE:	Acrylic
SHEEN:	Satin
VOLUME SOLIDS*:	29% ± 2%
WEIGHT SOLIDS*:	40% ± 2%
VOC*:	< 100 g/L
DENSITY*:	1.2 kg/L

*Product data calculated on product 4-4210XIC.

SPREADING RATE PER COAT: Apply at 23 – 32.5 sq. metres (250 – 350 sq. ft.) per 3.78 L depending on porosity of the substrate to obtain optimum film performance properties.

Wet Film Thickness: 116 to 163 microns
4.6 to 6.4 mils

Dry Film Thickness: 34 to 48 microns
1.3 to 1.9 mils

Coverage figures do not include loss due to surface irregularities and porosity or material losses due to application method or mixing.

DRYING TIME: Dry time @ 25°C (77°F); 50% relative humidity.

To Touch: 30 minutes

To Recoat: 6 hours

For Foot Traffic: 24 hours

For Vehicle Service: 72 hours

Full curing: 30 days

Drying times listed may vary depending on temperature, humidity, film build, colour, and air movement.

Permissible temperatures during the application:

Material:	2 to 38°C	35 to 100°F
Ambient:	2 to 38°C	35 to 100°F
Substrate:	2 to 38°C	35 to 100°F

CLEANUP: Remove as much product quantity as possible and clean tools with lukewarm soapy water immediately after use.

DISPOSAL: Consult your municipality in order to dispose of paint residues according to environmental regulations. Do not pour down a drain or storm sewer.

FLASH POINT: Over 93 °C (200 °F)

FEATURES / BENEFITS

Features

Seals Concrete
Hot tire resistance
Fast drying
Resistant to moisture and household chemicals
Good adhesion
Excellent Application Properties
UV Resistance
Application down to 2°C (35°F)
Moisture Resistance

Benefits

Minimizes moisture damage.
Minimizes staining and discolouration on traffic surface.
Turns jobs faster.
Extends substrates life.
Resists peeling and cracking.
Less time for application and resists pinholing.
Looks like new longer.
Longer painting season.
Extends substrates life.

PERFORMANCE DATA

Property	Test Method	Results
Hot Tire	Koehler I.C.	Passes, no staining or adhesion loss
Water repellency	ASTM D4446	Passes, no water absorption
Weathering	ASTM D4587	Passes QUV 500 Hours
Adhesion	ASTM D3359	Passes Wet & Dry
Yellowing	ASTM E313	Passes, no discolouration

LIMITATIONS OF USE

PROTECT FROM FREEZING. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

Do not apply to concrete floors that do not have a vapour barrier underneath, or to other surfaces with hydrostatic pressure. Apply only when air and surface temperatures are above 2°C and at least 3°C above the dew point. Air and surface temperatures must remain above 2°C for the next 24 hours. Do not apply when air or surface temperatures are below 35°F (2°C) or above 100°F. For optimum application properties, bring material to 10°C to 32°C (50°F to 90°F).

Surface pH limitation is 7 - 10.

Allow to dry 24 hours before pedestrian traffic and 72 hours before vehicular traffic.

Not intended for use on wood.

Avoid contact with strong acids and bases. Cleanup gasoline spills immediately.

While this product provides a mildew-resistant coating, growth may still occur if the substrate is not properly prepared prior to painting and/or if the substrate is consistently exposed to conditions conducive to mould, mildew, and algae.

GENERAL SURFACE PREPARATION

Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough or patched surfaces. Feather back all rough edges to sound surface by sanding.

Eliminate stains caused by mildew with a solution of household bleach (1 part household bleach to 3 parts of water). Before use, carefully read product label and follow directions for its use. Let dry thoroughly to a moisture content under 12%.

Remove chalk residue from substrates in good condition by sweep blasting, power washing, wire brushing, etc., to remove loose material. After cleaning, if chalk remains, vertical surface should be restored using Acrylic Masonry Surface Sealer *Perma-Crete* 4-808C.

PRECAUTION: Dry sanding will give rise to dust and/or hazardous fumes. Wear suitable respiratory protective equipment. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to hazardous substances that may be released during surface preparation. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Contact a regional Health Canada office for more information. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

BRICK: New brick and mortar should cure for at least 30 days and preferably 90 days prior to priming and staining. The pH of the substrate must be less than 10. Painting glazed brick is not recommended due to potential adhesion problems.

CONCRETE & MASONRY BLOCK: New concrete should cure for at least 30 days and preferably 90 days prior to priming and staining. The pH of the substrate must be less than 10. Etching with acid is usually not required, but is recommended for optimum performance over smoothly troweled or new concrete. If acid etching, follow manufacturer's recommendations.

CONCRETE/MASONRY BLOCK: Mortar should cure for at least 30 days and preferably 90 days prior to priming and staining. Block filler should be applied prior to priming and staining if a smoother uniform surface is desired. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer vertical may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, reseal and recheck adhesion.

Before use, be sure to read and follow the instructions and warnings on the label.

Contact your local representative for any additional surface preparation guidelines.

RECOMMENDED PRIMERS

Product is self-priming. Refer to surface preparation for specific recommendations.

APPLICATION INFORMATION

KEEP OUT OF REACH OF CHILDREN. USE WITH ADEQUATE VENTILATION. Read all label and Safety Data Sheet (SDS) information prior to use. SDS are available from your retailer, through our website or by calling 1-800-463-7426.

Stir thoroughly before use and occasionally during use. When using more than one container of the same colour, intermix to ensure colour uniformity.

Application Equipment: Apply with a high quality synthetic brush, roller, paint pad, or by spray equipment. Apply 2 coats evenly; avoid puddles, heavy spots, and laps to prevent colour variations in the applied film.

Brush: High quality polyester/nylon brush.

Roller: 13 to 20 mm (1/2 – 3/4 in.) nap synthetic roller cover.

Airless Spray: Minimum requirements: Pressure 1800–2400 psi, tip 0.013 in. - 0.017 in.; flow rate 0.5 L/minute.

Spray equipment must be handled with due care and in accordance with the manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

Conventional Spray: DeVilbiss MBC-510 gun; E tip; 704 Air Cap; 3/8 in. ID material hose; double regulated pressure tank with oil and moisture separator; 20-psi fluid pressure; 40–60 psi air pressure.

Thinning: Thin the first coat with up to 237 mL of fresh water per 3.78 L to aid in penetration and for better adhesion. **Thinning of additional coats is not recommended.**

Note: Thoroughly saturate concrete with the first coat. Apply 2 coats evenly; avoid puddles, heavy spots, and laps to prevent colour variations in the applied film. Colour differences will also occur due to differences in substrate porosity.

PRECAUTIONS

Keep out of the reach of children. Keep containers tightly closed and sealed until ready for use.

Before using the products listed in this publication, carefully read each product label and follow directions for its use. Use personal protective equipment as required. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. **Note:** These warnings encompass the product series.

MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. Avoid breathing vapours, spray or mists. Avoid contact with skin and eyes. Wear protective gloves/clothing and eye/face protection.

FIRST AID: If swallowed, rinse mouth with water (only if the person is conscious). Call physician immediately. Do not induce vomiting unless directed to do so by medical personnel. If in eyes, rinse with water for 15 minutes. Check for and remove any contact lenses. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if irritation develops. If inhaled, remove to fresh air. If experiencing respiratory symptoms call poison centre or doctor/physician.

For workplace use, an SDS are available from your retailer, through our website or by calling 1 800 463-7426.

EMERGENCY SPILL INFORMATION: 1 514 645-1320 or 1 800 463-7426.

LIMITED WARRANTY

PPG Architectural Coatings Canada, Inc. warrants performance of its products to its intended use if properly applied in accordance with the label directions and the specifications of the technical data sheet. Having no control over the application methods and conditions or the circumstances related to its use, no other warranty, expressed or implied, statutory or otherwise is given. This limited warranty extends only to the original purchaser of the product and is not transferable or assignable. If the product fails to conform to this limited warranty, we will, at your option, furnish replacement product or refund the purchase price. This limited warranty excludes (1) labour or costs of labour for the application or removal of any product and (2) all other direct, indirect, incidental, special or consequential damages.

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