



GENERAL DESCRIPTION

Perma-Crete Alkali Resistant Primer is specifically designed for interior and exterior, above ground, wood, plaster, wallboard, and masonry surfaces. This primer provides excellent sealing and stain blocking performance. *Perma-Crete* Alkali Resistant Primer is formulated to seal and protect the topcoat from hot alkali found in plaster, masonry, and cement. It blocks out stains such as, water, smoke, ink, markers, and tannins. *Perma-Crete* Alkali Resistant Primer is ideal for use on a variety of exterior masonry projects including high-rise apartments and condominiums, tilt-up warehouses, hospitals, schools, concrete parking garage overheads, hotels, resorts and residential homes.

RECOMMENDED SUBSTRATES

Brick	Masonry
Concrete	Plaster
Concrete Block (CMU)	Stucco
Fiber Cement	Tilt-Up/Pre-Cast Concrete
Gypsum Wallboard-Drywall	Wood

CONFORMANCE STANDARDS

VOC compliant in all regulated areas
MPI approved in category 3

TINTING AND BASE INFORMATION

4-603XI White (Tintable)

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

PACKAGING

1-Gallon (3.78 L)
5-Gallon (18.9 L)

FEATURES AND BENEFITS

Features

Alkali Resistance
Excellent Stain Blocker
Application to 35°F (2°C)
High Solids
Efflorescence Resistance
Seals and Prepares Recommended Substrates
Adhesion
Excellent Application Properties
Mildew Resistant Coating

Benefits

Can apply to fresh concrete at 7 days and a pH less than 13
Blocks water, smoke, ink, markers, and tannins
Extends the painting season
Better coverage
Minimizes white crusty salt deposits
Minimizes moisture damage and prepares the surface for topcoating
Minimizes peeling and cracking
Reduces application time and provides a natural uniform appearance
Mildew and fungal growth resistance on paint film

PERFORMANCE DATA

Property	Test Method	Results
Flexibility	ASTM D522B	Pass
Mildew Resistance	ASTM D5590	No growth
Alkali Resistance	TTP-1511B	Passes: no efflorescence, blistering, saponification
Adhesion	ASTM D3359	Passes

Read Label and Safety Data Sheet Prior to Use. See other cautions on last page.

PRODUCT DATA

PRODUCT TYPE:	100% Acrylic Latex
SHEEN:	Non-Flat
VOLUME SOLIDS:	40% +/- 2%
WEIGHT SOLIDS:	52% +/- 2%
WEIGHT/GALLON:	10.5 lbs. (4.8 kg) +/- 0.2 lbs. (91 g)
VOC:	<100 g/L (0.8 lbs./gal.)

COVERAGE: 250 to 450 sq. ft. (23 to 42 sq. meters) per US gal. (3.78L)

Wet Film Thickness:	3.6 mils to 6.4 mils
Wet Microns:	91 to 163
Dry Film Thickness:	1.4 mils to 2.6 mils
Dry Microns:	36 to 66

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

DRYING TIME: Dry time @ 77°F (25°C); 50% relative humidity.
To Touch: 30 minutes
To Recoat: 2 to 4 hours

Drying times listed may vary depending on temperature, humidity, film build, color, and air movement. For example, product applied at 35°F (2°C) would require a minimum of 24 hours before recoat. Drying is important to stain-blocking properties. For maximum stain resistance, allow 24 hours before topcoating. If drying conditions are poor (low temperature, high humidity), longer drying times are required to achieve stain blocking.

CLEANUP: Clean tools and hands immediately with warm, soapy water.

DISPOSAL: Contact your local environmental regulatory agency for guidance on disposal of unused product. Do not pour down a drain or storm sewer.

FLASH POINT: Over 200°F (93°C)

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. Caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding.

Remove mildew by washing with a mixture of 1 part liquid chlorine bleach to 3 parts water. Before use, be sure to read and follow instructions and warnings on label. Rinse thoroughly.

Dry substrate thoroughly to a moisture content under 12%. Clean laitant substrates in good condition by sweep blasting, power washing, wire brushing, etc. to remove loose material. After cleaning, vertical substrates that are laitant, may be conditioned with a coat of *Perma-Crete* Exterior Acrylic Clear Masonry Surface Sealer 4-808.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. 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. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure other hazardous substances that may be released during surface preparation.

BRICK, CONCRETE, MASONRY and STUCCO: New concrete and masonry should cure for at least 7 days and preferably 30 days prior to priming and painting. The pH of the substrate must be less than 13 before priming. Painting glazed brick is not recommended due to potential adhesion problems.

GYP SUM WALLBOARD-DRYWALL: Nails or screws should be countersunk, and they along with any indentations should be mudded flush with the surface, sanded smooth and cleaned to remove any dust, then prime prior to painting the substrate.

FIBER CEMENT: Fiber cement board may present potential adhesion, alkali burn, and efflorescence problems. New board should be aged for at least 7 days and preferably 30 days prior to priming and painting. The pH of the substrate must be less than 13 and the moisture content must be less than 12% prior to priming and topcoating. All cracks and opens seams should be caulked to prevent water penetration. Pre-primed board from the manufacturer may not be uniformly or completely sealed. It is recommended that a primer be applied to ensure complete and uniform sealing prior to topcoating.

PLASTER: Plaster, hardcoat, skim coat, or other alkaline surfaces should be allowed to cure for at least 7 days and preferably 30 days prior to priming.

TILT-UP or PRE-CAST CONCRETE: New tilt-up or pre-cast should cure for at least 7 days and preferably 30 days prior to priming and painting. The pH of the substrate must be less than 13 before priming with an alkali resistant primer. Moisture content should be less than 12% prior to priming and topcoating. All bond breakers, release agents, and admix plasticizers must be removed to prevent adhesion problems. Bond breakers and similar surface contaminants should be removed as directed by the tilt-up manufacturer which can include specific cleaners, powerwashing, and/or surface profiling by mechanical methods. Surface chalk from the curing or aging process should be removed then sealed with an appropriate sealer to rebind and restore the surface to a sound condition. Additional surface preparation guidelines can be found by referring to Technical Bulletin AF-2008-8 Guide on Painting Tilt-Up Concrete. Information or a copy of the bulletin can be obtained by calling 1-800-441-9695.

WOOD: Unpainted wood or wood in poor condition should be sanded smooth, wiped clean, then primed. Any knots or resinous areas must be primed before painting. Countersink all nails, putty flush with surface, then prime. Staining or tannin bleeding woods (like cedar or redwood) require two coats. The first coat must be completely dry before re-coating. For optimum tannin blocking performance, allow the first coat to dry a full 24 hours prior to the application of a second coat.

LIMITATIONS OF USE

Apply only when air and surface temperatures are 35°F (2°C) or above and surface is at least 5°F (3°C) above the dew point. Air and surface temperatures must remain 35°F (2°C) or above for the next 24 hours. For optimum application properties, bring material to at least 50°F (10°C) prior to application. Surface pH limitation is 7-13. Avoid exterior application late in the day when dew and condensation are likely to form or if rain or snow is expected.

PROTECT FROM FREEZING. KEEP OUT OF REACH OF CHILDREN.

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 mold, mildew, and algae.

APPLICATION INFORMATION

Stir thoroughly before use. USE WITH ADEQUATE VENTILATION. Read all label and Safety Data Sheet (SDS) information prior to use. SDS are available through our web site or by calling 1-800-441-9695.

Application Equipment: Apply with a high quality brush, roller, paint pad, or by spray equipment.

Airless Spray: Pressure 1800 - 2400 psi, tip 0.015" - 0.021", flow rate 1/2 gal/minute. Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

Brush: Polyester/Nylon Brush

Roller: 3/8" - 3/4" nap roller cover

Thinning: Do not thin.

Permissible temperatures during application:

Material:	35 to 90°F	2 to 32°C
Ambient:	35 to 90°F	2 to 32°C
Substrate:	35 to 90°F	2 to 32°C

PRECAUTIONS

WARNING! HARMFUL IF INHALED. HARMFUL IF SWALLOWED. CAUSES RESPIRATORY TRACT IRRITATION. Do not breathe vapor or mist. Do not swallow. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Provide fresh air ventilation during and after application and drying. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Use personal protective equipment as required. **Note: These warnings encompass the product series. Prior to use, read and follow product-specific SDS and label information.** **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. If on skin, rinse well with water. Wash with soap and water. Get medical attention if irritation develops. If inhaled, remove to fresh air. Call physician immediately. Keep out of the reach of children. For workplace use, an SDS is available from your retailer or by calling (412) 492-5555. EMERGENCY SPILL INFORMATION: (412) 434-4515 (U.S.).

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