GENERAL DESCRIPTION

Perma-Crete 100% Acrylic High Build is specifically designed for interior and exterior, above ground, masonry substrates requiring high performance protection. It is alkali and efflorescence resistant. *Perma-Crete* 100% Acrylic High Build provides resistance against water, UV light, staining and is breathable. It passes ASTM D6904-3 for wind driven rain. *Perma-Crete* 100% Acrylic High Build provides a durable exterior coating and provides an option between conventional acrylics and elastomeric coatings. This *Perma-Crete* high build topcoat is ideal for high-rise apartments and condominiums, tilt-up warehouses, hospitals, schools, concrete parking garage overheads, hotels, resorts and residential homes.

RECOMMENDED SUBSTRATES

Brick
Concrete
Concrete Block (CMU)
Fiber Cement Siding
Masonry
Stucco
Tilt-Up/Pre-Cast Concrete

CONFORMANCE STANDARDS

VOC compliant in all regulated areas

TINTING AND BASE INFORMATION

4-22XI	White
4-26XI	Midtone Base*
4-40XI	Ultra Deep Base*

*Must be tinted before use.

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

PRODUCT DATA

PRODUCT TYPE:	100% Acrylic
SHEEN:	Flat
VOLUME SOLIDS*:	45% +/- 2%
WEIGHT SOLIDS*:	61% +/- 2%
WEIGHT/GALLON*:	11.8 lbs. (5.4 kg) +/- 0.2 lbs. (91 g)
VOC:	<100 g/L (0.8 lbs./gal.)

*Product data calculated on product 4-22XI

COVERAGE: 125 to 225 sq. ft. (11.6 to 20.9 sq. m) per US gal. (3.78L)

Wet Film Thickness:	7 mils to 13 mils
Wet Microns:	178 to 330
Dry Film Thickness:	3.2 mils to 5.8 mils
Dry Microns:	81 to 147

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 @ 77ºF (25ºC); 50% relative humidity.

To Touch:	1 hour
To Recoat:	4 hours

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

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 200ºF (93ºC)

FEATURES AND BENEFITS

Features	Benefits
Exceptional dirt resistance	Stays clean
Excellent flexibility and durability	Resists cracking and peeling due to movement of the substrate
Resists Wind Driven Rain	Water resistance requires 2 coats of a pinhole free film
High Build	Provides more protection in fewer coats than conventional paints
Tensile Strength	Film integrity is maintained when expansion and contraction occurs
Mildew resistant coating	Mildew and fungal growth resistance on the paint film
UV resistance	Looks new
Alkali Resistance	Can apply to fresh concrete at 7 days and a pH less than 13
Application down to 35°F (2ºC)	Extends painting season

PERFORMANCE DATA

Property	Test Method	Results
Resistance to Wind Driven Rain	ASTM D6904-03	Passes: pinhole free film, one coat each; 4-603XI *Perma-Crete* Primer @ 1.6 mils DFT and 4-22XI *Perma-Crete* High Build @ 5 mils DFT Passes: pinhole free film, two coats; 4-22XI *Perma-Crete* High Build @ 5 mils DFT per coat
Tensile Strength	ASTM D2370	609 psi
Flexibility	ASTM D522, Method B	Passes
Mildew Resistance	ASTM D5590	No growth
Water Vapor Permeance	ASTM D1653	19 perms @ 4.8 DFT

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. Repair all moisture problems. Blistering and peeling issues are commonly caused by moisture behind the paint film. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding. When applied to an uncoated substrate, two coats are required, with the first coat acting as the primer. After cleaning, chalky and porous masonry surfaces may be primed with *PERMA-CRETE* Exterior Masonry Surface Sealer 4-808 (Clear) or 4-809 (Pigmented). Tilt up concrete surfaces may be primed with one coat of *PERMA-CRETE* Interior/Exterior Acrylic Latex Alkali Resistant Primer 4-603.

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: New brick and mortar should cure for at least 7 days and preferably 30 days prior to painting. The pH of the substrate must be less than 13. Painting glazed brick is not recommended due to potential adhesion problems.

CONCRETE and MASONRY: New concrete should cure for at least 7 days and preferably 30 days prior to painting. The pH of the substrate must be less than 13.

CONCRETE/MASONRY BLOCK: Mortar should cure for at least 7 days and preferably 30 days prior to painting. 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 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, re-seal and re-check adhesion.

FIBER CEMENT: Fiber cement siding and trim 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. Preprimed board from the manufacturer may not be uniformly or completely sealed. It is recommended that an alkali resistant primer be applied to ensure complete and uniform sealing prior to topcoating.

STUCCO: New stucco should cure for at least 7 days and preferably 30 days prior to painting. The pH of the substrate must be less than 13. 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.

TILT-UP or PRE-CAST CONCRETE: New tilt-up or pre-cast should cure for at least 30 days and preferably 90 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.

RECOMMENDED PRIMERS

Product is self-priming in most applications, but other primers that can be used are:

Brick	4-808, 4-809, 4-898, 4-2, 4-503, 4-603XI, 17-921XI
Concrete Block (CMU)	4-100XI, 4-2, 4-503, 4-603XI, 17-921XI
Concrete/Masonry	4-808, 4-809, 4-898, 4-503, 4-603XI, 17-921XI
Fiber Cement Siding	4-503, 4-603XI, 17-921XI
Stucco	4-808, 4-809, 4-898, 4-503, 4-603XI, 17-921XI
Tilt-Up/Precast Concrete	4-603XI, 17-921XI

PACKAGING

5-Gallon (18.9 L)

LIMITATIONS OF USE

Apply only when air and surface temperatures are above 35°F (2°C) and surface is at least 5°F (3°C) above the dew point. Air and surface temperatures must remain above 35°F (2°C) for the next 24 hours. For optimum application properties, bring material to at least 50ºF (10ºC) 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. Not recommended for use on surfaces demonstrating hydrostatic or high vapor pressure or for immersion service. Do not use on floors. Always back roll the surface when applied by spray to achieve a pinhole free film.

PROTECT FROM FREEZING. USE WITH ADEQUATE VENTILATION. 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. 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 or by spray equipment. When using more than one container of the same color, intermix to ensure color uniformity. Apply one or two coats as required. Two pinhole free coats at five mils DFT each (10 mil DFT total) are required for wind driven rain protection.

Airless Spray: Minimum requirements: Pressure 1800-2400 psi, tip 0.017” - 0.021”, flow rate 1.0 gal/minute.
Spray equipment must be handled with due care and in accordance with manufacturer’s recommendations. High pressure injection of coatings into the skin by airless equipment may cause serious injury.

Brush: High Quality Polyester/Nylon Brush
Roller: 3/8” - 3/4” nap synthetic roller cover

Thinning: Do not thin.

Permissible temperatures during application:

Material:	35 to 100ºF	2 to 38ºC
Ambient:	35 to 100ºF	2 to 38ºC
Substrate:	35 to 100ºF	2 to 38ºC

PRECAUTIONS

WARNING! HARMFUL IF INHALED. HARMFUL IF SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION. Sanding and grinding dusts may be harmful if inhaled. Do not breathe vapor or mist. Do not swallow. Do not get on skin or clothing. 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. 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 a POISON CENTER or doctor/physician. 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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