

PPG Architectural Coatings

100% Acrylic High Build Interior / Exterior Masonry, Flat Coating

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 efflorescent resistant. It provides resistance against water, UV light and staining.

This high build topcoat also passes ASTM D6904 for wind-driven rain as a self-primed two-coat system.

Perma-Crete 4-22XIC Series provides a durable 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)	Fibre Cement Siding
Masonry	Stucco
Tilt-Up Concrete	

See details in the “recommended primers” section.

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.

4-22XIC	White
4-40XIC	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:	100% Acrylic Latex
SHEEN:	Flat
VOLUME SOLIDS*:	45% ± 2%
WEIGHT SOLIDS*:	61% ± 2%
VOC*:	< 100 g/L
DENSITY*:	1.4 kg/L

*Product data calculated on product 4-22XIC.

SPREADING RATE PER COAT: Approximately 11.5 to 21 square metres (125 to 225 sq. ft.) per 3.78 litres on primed, smooth, nonporous surfaces.

Wet Film Thickness: 178 to 330 microns
7 to 13 mils

Dry Film Thickness: 81 to 147 microns
3.2 to 5.8 mils

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

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

To Touch: 1 hour

To Recoat: 4 hours

To Recoat at 2°C (35°F) Minimum 24 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

- Exceptional dirt resistance
- Excellent flexibility and durability
- Resists Wind-Driven Rain
- High Build
- Tensile Strength
- Mildew resistant coating
- UV Resistance
- Alkali Resistance
- Application down to 2°C
- Low VOC formula, < 50 g/L

Benefits

- Stays cleaner longer.
- Resists cracking and peeling due to the movement of the substrate.
- Water resistance requires 2 coats of a pinhole free film.
- Provides more protection in fewer coats.
- Film integrity is maintained when expansion and contraction occurs.
- Mildew resistance on the coating film.
- Looks new.
- Can apply to fresh concrete of at least 7 days old and with a pH of less than 13.
- Extends the painting season.
- Complies with the Canadian Volatile Organic Compound Concentration Limits for Architectural

PERFORMANCE DATA

Property	Test Method	Results
Resistance to Wind-Driven Rain	ASTM D6904	Passes: Two pinhole free coats <i>Perma-Crete</i> 4-22XIC at 127 microns (5 mils) each (254 microns [10 mils] total) WFT.
Tensile Strength	ASTM D2370	609 psi
Flexibility.	ASTM D522, Method B	Passes
Mildew resistance on the paint film.	ASTM D5590	No growth.
Water Vapor Permeance	ASTM D1653	19 perms @ 4.8 DFT

LIMITATIONS OF USE

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

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. For optimum application properties, bring material to at least 10°C prior to application. Surface pH limitation is 7 - 13. Avoid exterior applications late in the day when dew and condensation are likely to form or if rain or snow is expected.

Always back roll the surface when applied by spray to achieve a pinhole free film.

Do not use on floors, on surfaces demonstrating hydrostatic or high vapour pressure, or for immersion service.

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.

Solve all moisture problems.

Blistering and peeling issues are commonly caused by moisture behind the paint film.

Putty all nail holes and caulk all cracks or open seams.

Sand all glossy, rough or 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* Acrylic Masonry Surface Sealer 4-809C.

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: Prior to painting, mortar should cure for at least 7 days and preferably 30 days. The pH of the substrate must be less than 13.

Painting glazed brick is not recommended due to potential adhesion problems.

CONCRETE & MASONRY BLOCK: Prior to painting, concrete or mortar should cure for at least 7 days and preferably 30 days. The pH of the substrate must be less than 13. 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, reseal and recheck adhesion.

FIBRE CEMENT SIDING: Fibre cement board may present potential adhesion, alkali burn, and efflorescence problems. Prior to priming or top coating, fibre cement should cure for at least 7 days and preferably 30 days. The pH of the substrate must be less than 13 and the moisture content must be less than 12% prior to priming and topcoating. Caulk all holes, cracks and open seams to prevent water penetration. Pre-primed 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: Prior to painting, stucco should cure for at least 7 days and preferably 30 days. 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 PRECAST CONCRETE: New tilt-up or precast should cure for at least 30 days and preferably 90 days prior to priming and topcoating. The pH must be less than 13 before priming with an alkali resistant primer or topcoating. Moisture content must 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, power washing, 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. Contact your local representative for a copy of this bulletin.

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 in most applications, but other primers that can be used are:

Brick	4-100XIC, 4-809C, 17-921XIC, <i>Dulux Gripper 60000A</i>
Concrete Block (CMU)	4-100XIC, 17-921XIC, Dulux X-pert 36250
Concrete and Masonry	4-100XIC, 4-809C, 17-921XIC, Dulux X-pert 36250
Fibre Cement Siding	17-921XIC, <i>Dulux Gripper 60000A</i>
Stucco	4-100XIC, 4-809C, 17-921XIC, Dulux Weatherguard 1535, <i>Dulux Gripper 60000A</i>
Tilt-Up or Precast Concrete	17-921XIC, Dulux Weatherguard 1535, <i>Dulux Gripper 60000A</i> ,

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 brush, roller, or by airless spray equipment. When using more than one container of the same colour, intermix to ensure colour uniformity. Apply one or two coats as required.

Two pinhole free coats at 127 microns (5 mils) each (254 microns [10 mils] total) DTF are required for wind-driven rain protection.

Brush: High quality polyester/nylon brush.

Roller: 10 to 20 mm (3/8 – 3/4 in.) nap synthetic roller cover.

Airless Spray: Pressure 1800–2400 psi, tip 0.017 in. - 0.021 in.; flow rate 3.8 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.

Thinning: Do not thin.

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 contact with skin and eyes.

Sanding and grinding dusts may be harmful if inhaled. Do not breathe vapour or mist. Do not swallow. Do not get on skin or clothing. Wash thoroughly after handling. Provide fresh air ventilation during and after application and drying. 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 a Poison Control Centre or doctor 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 in eyes, rinse with water for 15 minutes. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if irritation develops. If breathed in, move person to fresh air. If experiencing respiratory symptoms call a 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

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