

## GENERAL DESCRIPTION

**PERMA-CRETE 4-809C Interior/Exterior Acrylic Masonry Surface Sealer** is a fast drying, waterborne, acrylic sealer used primarily to seal chalky or porous stucco, concrete or masonry walls prior to painting or waterproofing.

It is designed to deeply penetrate and seal new, porous surfaces and old, dusty or chalky paint films and substrates.

Finish with architectural primers and topcoats suitable for concrete and masonry, typically acrylic and vinyl acrylic latex and elastomerics, and waterborne epoxies (interior only).

This **PERMA-CRETE Interior/Exterior Masonry Surface Sealer** is ideal on new and old concrete for use on a variety of masonry projects including high-rise apartments and condominiums, warehouses, hospitals, schools, concrete parking garage overheads, hotels, and commercial structures.

## RECOMMENDED SUBSTRATES

|  |                  |
|--|------------------|
| Brick and Masonry                      | Concrete         |
| Concrete Block (concrete masonry unit) |                  |
| Fibre Cement Siding                    | Masonry          |
| Stucco                                 | Tilt-Up Concrete |

## 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.

4-809C Pigmented

## PACKAGING

18.9 L

## PRODUCT DATA

|  |  |
|--|--|
| <b>PRODUCT TYPE:</b>                               | 100% Acrylic   |
| <b>SHEEN:</b>                                      | Satin (normally penetrates to a flat sheen)                            |
| <b>VOLUME SOLIDS*:</b>                             | 17% ± 2%   |
| <b>WEIGHT SOLIDS*:</b>                             | 23% ± 2%   |
| <b>VOC*:</b>                                       | < 250 g/L  |
| <b>DENSITY*:</b>                                   | 1.1 kg/L   |
| <i>*Product data calculated on product 4-809C.</i> |  |
| <b>SPREADING RATE:</b>                             | 18 to 37 m <sup>2</sup> (200 to 400 ft <sup>2</sup> ) per 3.78 litres. |
| <b>Wet Film Thickness:</b>                         | 4 to 8 mils (102 to 203 µm)  |
| <b>Dry Film Thickness:</b>                         | 0.7 to 1.3 mils (18 to 33 µm)  |

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

|                     |  |
|---------------------|--|
| <b>DRYING TIME:</b> | (@ 25°C [77°F]; 50% relative humidity) |
| To Touch:           | 15 minutes                             |
| To Handle:          | 1 hour                                 |
| To Recoat:          | 1 - 3 hours                            |

*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 Chalky Surfaces  
Excellent adhesion  
Help to protect Porous Surfaces  
Binds Laitance  
Pigmented

### Benefits

Improves the bond of primer and/or topcoat.  
Improves durability of finish.  
Penetrates and seals recommended substrates.  
Entraps the gritty surface typical of new concrete.  
Tintable to a range of PPG colours and improves hiding.

## LIMITATIONS OF USE

### PROTECT FROM FREEZING. KEEP OUT OF REACH OF CHILDREN.

For optimum application properties, bring material to 10-30°C (50-86°F) temperature range prior to mixing or application.

Apply only when air and surface temperatures are above 2°C (35°F) and at least 3°C (5°F) above the dew point.

Do not apply when air or surface temperature is above 38°C (100°F).

Air and surface temperatures must remain above 2°C (35°F) for the next 24 hours. Avoid painting late in the day when dew or condensation are likely to form or when rain or snow are expected.

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

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.

## GENERAL SURFACE PREPARATION

**Brick:** Prior to priming or top coating, mortar should cure for at least 30 days and preferably 90 days. The pH of must be less than 10 before priming with an alkali resistant primer or top coating. Note: Painting glazed brick is not recommended due to potential adhesion problems.

**Concrete & Masonry Block:** Prior to priming or top coating, concrete or mortar should cure for at least 30 days and preferably 90 days. The pH of must be less than 10 before priming with an alkali resistant primer or top coating.

**Fibre Cement:** Prior to priming or top coating, fibre cement should cure for at least 30 days and preferably 90 days. The pH of must be less than 10 before priming with an alkali resistant primer or top coating. 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 top coating. 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.

**Stucco:** Prior to priming or top coating, stucco should cure for at least 30 days and preferably 90 days. The pH of must be less than 10 before priming with an alkali resistant primer or top coating.

**Tilt-Up or Precast Concrete:** New tilt-up or precast should cure for at least 30 days and preferably 90 days prior to product application.

The pH must be less than 10 before priming with an alkali resistant primer or top coating. 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.

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, loose chalk, efflorescence, mildew, rust, product fines and dust. Remove loose paint, loose chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Clean the concrete surfaces per ASTM Standard Practice D4258: Standard Practice for Surface Cleaning Concrete for Coating. Vacuum cleaning, water cleaning, detergent water wash, power wash cleaning, steam cleaning, hand tool and mechanical cleaning are acceptable cleaning methods.

**Efflorescence:** Remove efflorescence by pressure washing or cleaning with diluted muriatic acid. Before use, be sure to read and follow the instructions and warnings on the label.

**Mildew:** Remove mildew with a solution of household bleach (1 part household bleach to 3 parts of water). Before use, be sure to read and follow the instructions and warnings on the label.

Rinse thoroughly and allow to dry.

Clean chalky paint in good condition by sweep blasting, power washing, wire brushing, etc. to remove loose material.

Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface.

**PRECAUTION:** Dry sanding will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. Wear suitable respiratory protective equipment when exposure cannot be avoided by adequate local ventilation. 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.

### Moisture content:

Prior to the application of coatings, the moisture content of the substrate should be checked by one of the following methods:

- Electrode-type moisture meter. For this method, coating can be applied if readings of less 5% moisture content (electrical impedance) or 12% (electrical conductivity).
- Placing a sheet of plastic on the concrete surface for the same length of time the repair material would take to cure (normally 24 hours @ 25°C). If, after this time, there is visible moisture, a poor bond may result.

Caulk all holes and caulk all cracks and open seams to prevent water penetration prior to product application. Treatment of cracks and seams is required to obtain the water-resistant protection of the building and to help prevent further cracking and deterioration. Methods of treatment depend upon the size of the crack.

**Contact your local representative for any additional surface preparation guidelines.**

**RECOMMENDED PRIMERS**

**None. Refer to Surface Preparation Recommendations.**

**APPLICATION INFORMATION**

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

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 or by calling 1-800-463-7426.

**Application Equipment:** Apply with a high quality synthetic brush, roller or by spray equipment. Apply one even coat. Do not apply heavy films. Two coats may be required on chalky or extremely porous surfaces.

**Airless Spray:** Pressure 1800-2400 psi.

Tip 0.011" - 0.013".

Flow rate 3.78 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.*

**Brush:** High quality polyester/nylon brush.

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

**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 breathing vapours, spray or mists. Avoid contact with skin and eyes. Wear protective gloves/clothing and eye/face protection. Keep out of reach of children. **FIRST AID TREATMENT:** If swallowed, call a Poison Control Centre or doctor immediately. If in eyes or on skin, rinse well with water. If breathed in, move person to fresh air.

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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