



PERMA-CRETE®

4-808 - Clear
4-809 - Pigmented

Architectural Coatings

PERMA-CRETE® Interior/Exterior Acrylic Masonry Surface Sealer

GENERAL DESCRIPTION

PERMA-CRETE® Interior/Exterior Acrylic Masonry Surface Sealers are a fast drying, waterborne, clear or pigmented acrylic sealer used primarily to seal chalky or porous stucco, concrete or masonry walls prior to painting or waterproofing. They are 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, elastomeric, and waterborne epoxies (interior only). These PERMA-CRETE Interior/Exterior Masonry Surface Sealers are ideal on new and old concrete for use on a variety of exterior masonry projects including high-rise apartments and condominiums, warehouses, hospitals, schools, concrete parking garage overheads, hotels, and commercial structures.

RECOMMENDED SUBSTRATES

Brick	Fiber Cement	Tilt Up
Concrete	Masonry	
Concrete Block (CMU)	Stucco	

CONFORMANCE STANDARDS

VOC compliant to Federal AIM, OTC, LADCO, and CARB 2000 regulations

APPLICATION INFORMATION

Stir or shake thoroughly before use and occasionally during application. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our web site or by calling 1-800-441-9695.

Application Equipment: Apply by airless spray, conventional sprayer, or high quality brush or roller.

Airless Spray: Minimum requirements: Pressure 1800-2400 psi, tip 0.011" - 0.013"; flow rate 1/2 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: Polyester/Nylon Brush

Roller: 1/2" - 3/4" nap synthetic roller cover

Thinning: Not recommended.

FEATURES AND BENEFITS

Features

- Seals Chalky Surfaces
- Excellent Adhesion
- Protects Porous Surface
- Binds Laitance
- Clear (4-808)
- Pigmented (4-809)

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
- Maintains natural appearance and minimizes dirt pick-up
- Tintable to a range of PPG colors and improves hiding

APPLICATION INFORMATION (continued)

Permissible temperatures during application:

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

PRODUCT DATA

PRODUCT TYPE: 100% Acrylic

BASE/COLOR: 4-808 Clear

4-809 Pigmented

Satin (normally penetrates to a flat sheen)

CLEANUP: Soap and Water

17% +/- 2%

WEIGHT SOLIDS*: 23% +/- 2%

68 to 73 KU

VOC*: 228 g/L (1.9 lbs./gal.)

Colorants added to this product may contain VOCs.

*Product data calculated on product 4-809.

COVERAGE*: 200 to 400 sq. ft./gal. (18 to 37 sq. m/3.78L)

Wet Film Thickness: 4.0 mils to 8.0 mils

Wet Microns: 102 to 203

Dry Film Thickness: 0.7 mils to 1.3 mils

Dry Microns: 17 to 34

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

WEIGHT/GALLON*: 9.0 lbs. (4.1 kg) +/- 0.2 lbs. (91 g)

DRYING TIME: Dry time @ 70°F (21°C); 50% relative humidity

To Touch: 15 minutes

To Handle: 1 hour

To Recoat: 1 to 3 hours

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

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. 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.

Clean surfaces per ASTM Standard Practice D4258-83: 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. Remove efflorescence by pressure washing or cleaning with dilute muriatic acid (following manufacturer's instruction) or a solution of 1 part white vinegar to 4 parts water. Rinse thoroughly and allow to dry.

Remove mildew by using PPG MILDEW CHECK® Multi-Purpose Wash, 18-1; or 1 part chlorine bleach to 3 parts water. Before use, be sure to read and follow instructions and warnings on label.

Dry substrate thoroughly to a moisture content under 12%. Clean chalky paint in good condition by sweep blasting, power washing, wire brushing, etc. to remove loose material. After cleaning, powdery or chalky, unpainted recommended substrates may be conditioned with a coat of PERMA-CRETE Exterior Acrylic Clear Masonry Surface Sealer 4-808 or Pigmented Masonry Surface Sealer 4-809.

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 30 days and preferably 90 days prior to priming and painting. The pH of the substrate must be less than 10 before priming. Painting glazed brick is not recommended due to potential adhesion problems.

CONCRETE and MASONRY: New concrete 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 10 before priming.

CONCRETE/MASONRY BLOCK: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. 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 30 days prior to priming and painting. The pH of the substrate must be less than 10 and the moisture content must be less than 12% prior to priming and topcoating. All cracks and open 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 an alkali resistant primer be applied to ensure complete and uniform sealing prior to topcoating.

STUCCO: New stucco 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 10 before priming. Surface chalk from the curing or aging process should be removed then sealed with this 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 10 before priming. Moisture content should be less than 12% prior to priming and top-coating. 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.

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TINTING AND BASE INFORMATION

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

4-808	Clear (Not Tintable)
4-809	Pigmented (Tintable)

RECOMMENDED PRIMERS

None	Refer to Surface Preparation Recommendations
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LIMITATIONS OF USE

Do not apply when air or surface temperature is below 35°F (2°C) or above 100°F (38°C). Surface temperature must be at least 5°F (3°C) above dew point. Air and surface temperatures must remain above 35°F (2°C) for the next 24 hours. Do not apply in cold, damp conditions. Avoid exterior application late in the day when dew or condensation is likely to form or when rain or snow is expected. For optimum application properties, bring material to 50-85°F (10-29°C) temperature range prior to mixing or application.

PROTECT FROM FREEZING.

USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

PACKAGING

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

Not all products are available in all sizes.

PPG Architectural Finishes, Inc. believes the technical data presented is currently accurate; however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date technical information, visit our web site or call 1-800-441-9695.



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B4.3 9/2011
(Supersedes 1/2009)

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