



Architectural Coatings

PERMA-CRETE® Pigmented Bonding Coat

GENERAL DESCRIPTION

PERMA-CRETE® Pigmented Bonding Coat is an exterior, deep penetrating, tintable, pigmented, epoxy ester bonding primer used to prime, seal, and solidify chalky masonry and paint surfaces. It is designed to deeply penetrate and seal new, porous surfaces, old, chalky paint films, or badly weathered brick, concrete, stucco, and other masonry surfaces. Finish with architectural primers and topcoats suitable for concrete and masonry, elastomerics, or waterborne epoxy finishes (interior only). This PERMA-CRETE Pigmented Bonding Coat is ideal on new and old concrete for use on a variety of exterior masonry projects including apartments and condominiums, warehouses, hospitals, schools, parking garages, hotels, and commercial structures. This product is specially recommended for tilt up concrete when abrasive blasting, scarifying, or other means to remove laitance are not possible or practical.

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 or China Bristle Brush

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

Thinning: Do not thin.

FEATURES AND BENEFITS

Features

Seals Chalky Surface
Protects Porous Surface
Binds Laitance
Alkali Resistance
Efflorescence Resistance
Application to 35°F (2°C)
Excellent Application Properties

Benefits

Improves the bond of primer and/or topcoat
Penetrates and seals recommended substrates
Entraps the gritty surface typical of new concrete
Can apply to fresh concrete at 7 days and pH less than 13
Minimizes white crusty salt deposits
Longer painting season
Less time for application

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:	Epoxy
BASE/COLOR:	4-898 Off White
SHEEN:	Flat
CLEANUP:	Xylene
VOLUME SOLIDS:	50% +/- 2%
WEIGHT SOLIDS:	67% +/- 2%
VISCOSITY:	75 to 85 KU
VOC:	391 g/L (3.3 lbs./gal.)

COVERAGE: 250 to 400 sq. ft./gal. (23.3 to 37.2 sq. m/3.78L)

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

WEIGHT/GALLON: 9.8 lbs. (4.4 kg) +/- 0.2 lbs. (91 g)

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

To Touch:	1 hour
To Handle:	4 hours
To Recoat:	24 hours

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

FLASH POINT: 104°F (40°C)

PERFORMANCE DATA

Property	Test Method	Results
Alkali Resistance	TT-P-1511B	Passes: no efflorescence, blistering, saponification

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 Pigmented Bonding Coat 4-898.

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 priming and painting. The pH of the substrate must be less than 13 before priming with this alkali resistant sealer. 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 priming and painting. The pH of the substrate must be less than 13 before priming with this alkali resistant sealer.

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 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 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 priming and painting. The pH of the substrate must be less than 13 before priming with this alkali resistant sealer. 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 7 days and preferably 30 days prior to priming and painting. The pH of the substrate must be less than 13 before priming with this alkali resistant sealer. 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.

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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.

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Pigmented

RECOMMENDED PRIMERS

None

Refer to Surface Preparation Recommendations

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.

Use of this product for interior applications should be limited to unoccupied and well ventilated buildings. Odor may be irritating. Avoid breathing vapors or spray mist.

PROTECT FROM FREEZING.

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

PACKAGING

5-Gallon (18.9L)

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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