



## Architectural Coatings

## PERMA-CRETE® LTC (Low Temperature Cure) Concrete Block &amp; Masonry Surfacer/Filler

## GENERAL DESCRIPTION

PERMA-CRETE® LTC Concrete Block & Masonry Surfacer is a premium interior/exterior, light weight, acrylic latex block filler and surfacer for all types of properly prepared concrete and masonry surfaces. This product provides smoothing, filling, and leveling on all types of masonry and concrete surfaces. PERMA-CRETE LTC Concrete Block & Masonry Surfacer can be topcoated with latex, oil, waterborne epoxy finishes, or solvent borne epoxy finishes that do not contain strong solvents. This PERMA-CRETE product can be applied to new masonry including concrete and stucco that has cured 7 days with a pH less than 13. PERMA-CRETE LTC Concrete Block & Masonry Surfacer is ideal for use on a variety of exterior masonry projects including high-rise apartments and condominiums, hospitals, schools, concrete parking garage overheads, hotels, resorts and residential homes.

## RECOMMENDED SUBSTRATES

Brick	Masonry
Concrete	Stucco
Concrete Block (CMU)	

## CONFORMANCE STANDARDS

- VOC compliant in all regulated areas
- Can help earn LEED 2009 credits

## APPLICATION INFORMATION

Stir thoroughly before use. 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 with a high quality brush, roller, paint pad or by spray equipment.

**Airless Spray:** Minimum requirements: Pressure 2000-2800 psi, tip 0.019" - 0.027", flow rate 1.5 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:** 3/4" - 1" nap synthetic roller cover

**Thinning:** Do not thin for brush or roller application. Thin only if necessary for proper spray application with clean water up to 1 pint (473 mL) per 5 gallon (18.9L) of this product.

## FEATURES AND BENEFITS

## Features

Resists Wind Driven Rain

Low Temperature Cure/Application to 35°F (2°C)

Light Weight

Excellent Filling

Alkali Resistance

Efflorescence Resistance

## Benefits

Water resistance requires 3 coat system @ standard coverage rate: 4-100, 4-2, and either 4-22, 4-50, 4-60, 4-65, 4-110, or 4-310

Longer painting season and application range

Ergonomically friendly

Provides smooth and level surface for subsequent priming & topcoating

Can apply to fresh concrete at 7 days and a pH less than 13

Minimizes white crusty salt deposits

## PERFORMANCE DATA

## Property

Resistance to Wind Driven Rain

## Test Method

ASTM D6904-3

## Results

Passes water resistance as a pinhole free 3 coat system @ standard coverage rate: 4-100, 4-2, and either 4-22, 4-50, 4-60, 4-65, 4-110, or 4-310.

Alkali Resistance

TT-P-1511B

Passes: no efflorescence, blistering, saponification

Adhesion

ASTM D3359

Passes

## 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:	4-100 White
SHEEN:	Flat
CLEANUP:	Soap and Water
VOLUME SOLIDS:	58% +/- 2%
WEIGHT SOLIDS:	63% +/- 2%
VISCOSITY:	110 to 120 KU
VOC:	63 g/L (.53 lbs./gal.)

Colorants added to this product may contain VOCs.

**COVERAGE:** 80 to 100 sq. ft./gal. (7 to 9 sq. m/3.78L)

Wet Film Thickness: 16 mils to 20 mils

Wet Microns: 406 to 508

Dry Film Thickness: 9.3 mils to 11.6 mils

Dry Microns: 236 to 295

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

Note: To achieve wind driven rain resistance and maximum elongation, the product must be applied as a 3 coat system: 4-100, 4-2 and any appropriate PERMA-CRETE topcoat as specified on technical data sheet below.

**WEIGHT/GALLON:** 9.4 lbs. (4.3 kg) +/- 0.2 lbs. (91 g)

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

To Touch: 1 hour

To Recoat: 24 hours (see Limitations of Use section)

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. Prime all bare and porous substrates with an appropriate primer.

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](http://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. Use of an alkali resistant primer is recommended after application of block filler. 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. Use of an alkali resistant primer is recommended after application of block filler.

**CONCRETE/MASONRY BLOCK:** Mortar should cure for at least 7 days and preferably 30 days prior to painting. Use of an alkali resistant primer is recommended after application of this 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.

**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. Use of an alkali resistant primer is recommended after application of block filler. 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.

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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.

4-100 White

**RECOMMENDED PRIMERS**

New Concrete/Masonry  
(application over 4-100)

4-2, 4-503, 4-603

**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 50°F (10°C) prior to application. Solventborne epoxies require a 48 hour cure of the block filler prior to application of the epoxy. Surface pH limitation is 7-13. Do not use on floors. Do not overbuild product to prevent pinholes. Remove filter before spraying. Always back roll the surface when applied by spray to achieve a pinhole free film.

**PACKAGING**

5-Gallon (18.9 L)

PROTECT FROM FREEZING.

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

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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