



PERMA-CRETE®

- 4-50 - Fine
- 4-60 - Medium Hard
- 4-65 - Medium Soft
- 4-70 - Coarse

Architectural Coatings

PERMA-CRETE® 100% Acrylic Texture Coatings

GENERAL DESCRIPTION

PERMA-CRETE® 100% Acrylic Texture Coatings are specifically designed for interior and exterior, above grade, masonry, concrete, wood and metal surfaces requiring high performance textured finishes. They are alkali and efflorescence resistant. PERMA-CRETE textured coatings provide resistance against water, UV light, staining and are breathable. They pass TT-C-555B and ASTM D6904-3 for wind driven rain. PERMA-CRETE textured coatings provide a stain resistant texture finish that is excellent for high traffic, large wall areas. These finishes are a decorative textured coating ideal for high-rise apartments and condominiums, hospitals, schools, hotels, resorts and residential homes.

RECOMMENDED SUBSTRATES

Brick	Masonry	Plywood
Concrete	Metal	Stone
Concrete Block (CMU)	Plaster	Stucco

APPLICATION INFORMATION

Mix thoroughly with a power mixer before application. When using more than one can of the same color, mix together (box) before applying. 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 texture spray, roller or brush. Apply by professional hopper gun or brush to small areas only. When applying by roller, the final passes should be completed in a downward direction to ensure a uniform appearance. Maintain a wet edge for sheen uniformity.

Spray: Graco 1030 Texspray. Minimum requirements: Pressure 1000 psi, tip 3mm, flow rate 3 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: 3/4" - 1" synthetic roller cover

Thinning: Not recommended.

APPLICATION INFORMATION (continued)

Permissible temperatures during application:

Material:	50 to 90°F	10 to 32°C
Ambient:	50 to 100°F	10 to 38°C
Substrate:	50 to 100°F	10 to 38°C

PRODUCT DATA

PRODUCT TYPE:	100% Acrylic
BASE/COLOR:	4-50 Fine White and Mixing Base 4-60 Medium Hard White Mixing Base 4-65 Medium Soft White Mixing Base 4-70 Coarse White and Mixing Base

SHEEN: Flat 0 to 3 (85° Gloss Meter)

CLEANUP: Soap and Water

VOLUME SOLIDS*: 58% +/- 2%

WEIGHT SOLIDS*: 74% +/- 2%

VISCOSITY*: 125 to 135 KU

VOC*: .47 lbs./gal. (57 g/L)

COVERAGE*: 100 to 136 sq. ft./gal.
(9 to 14 sq. m/3.78L)

Wet Film Thickness: 11.7 mils to 16.0 mils

Wet Microns: 297 to 406

Dry Film Thickness: 6.8 mils to 9.3 mils

Dry Microns: 172 to 235

Note: To achieve wind driven rain resistance, the product must be applied at 3 coats @ standard coverage rate: 4-100,4-2, and either 4-50, 4-60. Does not include variation due to application methods, surface porosity, and/or mixing.

WEIGHT/GALLON*: 13.9 lbs. (6.3 kg) +/- 0.2 lbs. (91 g)

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

To Touch: 3 to 4 hours

To Handle: 24 hours

To Recoat: 12 to 16 hours

To Full Cure: 15 to 30 days

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

FLASH POINT: Over 200°F (93°C)

*Product data calculated on product 4-50

FEATURES AND BENEFITS

Features

- Textured Finish
- Variety of Textures
- Resists Wind Driven Rain

- Water Vapor Permeance
- Alkali Resistance
- High Build
- Efflorescence Resistance
- Freeze/Thaw Resistance
- Adhesion
- Excellent Application Properties
- Mildew Resistance
- UV Resistance
- VOC Compliant
- Meets MPI #42, Flat Latex Stucco and Masonry Textured Coating

Benefits

- Decorative Appearance / Minimizes surface imperfections
- Increased options available
- Waterproofing requires 3 coat system @ standard coverage rate: 4-100, 4-2, and either 4-50, 4-60
- Breathability
- Can apply to fresh concrete at 7 days and/or surface less than 13 pH
- Provides extra protection in fewer coats (1 coat)
- Blocks white crusty salt deposits
- Improved quality and consistency
- More forgiving on a variety of substrates
- Less time for application
- Mildew/Fungus/Biological Growth Resistant
- Looks like new longer
- Lower than current Federal AIM Regulations
- Allows additional specification opportunities

PERFORMANCE DATA

Property	Test Method	Results
Resistance to Wind Driven Rain	ASTM D6904-3	Passes @ standard coverage rate: 4-100, 4-2, and either 4-50, 4-60.
Water Vapor Permeance	ASTM D1653	Greater than 15 perms
Mildew Resistance	ASTM D3273/74	No growth
Alkali Resistance	TT-P-1511B	Passes: no efflorescence, blistering, saponification
Freeze-Thaw	ASTM D2243	Pass 5 Cycles

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).

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% (ASTM D4263: Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method). 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 with an alkali resistant primer. 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 with an alkali resistant primer.

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 SIDING: Fiber cement board 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 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.

MASONRY: New masonry 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 with an alkali resistant primer.

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 with an alkali resistant primer. 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 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 with an alkali resistant primer. 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.

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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.

4-50	Fine White and Mixing Base
4-60	Medium Hard White Mixing Base
4-65	Medium Soft White Mixing Base
4-70	Coarse White and Mixing Base

LIMITATIONS OF USE

Apply when air, surface and product temperatures are above 50°F (10°C) and surface temperature is at least 5°F (3°C) above the dew point. Avoid exterior application late in the day when dew and condensation are likely to form or if rain is anticipated. **PROTECT FROM FREEZING.** Do not use on steps, walkways, or other foot or vehicle traffic areas. Not recommended for immersion service. **USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.**

RECOMMENDED PRIMERS

Aluminum	6-204, 90-712
Concrete, Masonry (Primers, Sealers)	4-2, 4-603, 4-808, 4-809, PP335
Ferrous Metals	6-208, 6-212, 90-712
Galvanized Steel	6-209, 90-712
Plaster	4-603, 4-808, 4-809
Plywood	4-603, 77-102, PP515

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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