



Architectural Coatings

Perma-Crete AQUA-PEL™ Clear Water Repellent

GENERAL DESCRIPTION

Perma-Crete Aqua-Pel Clear Water Repellent is a waterborne, penetrating, non-film forming product ideal for use on interior/exterior, above-ground, vertical and horizontal surfaces. This product provides excellent water repellency to reduce cracking, spalling, freeze/thaw and chemical damage, mold and mildew growth and dirt pick-up, thereby lengthening substrate life and reducing maintenance cost. Perma-Crete Aqua-Pel Clear Water Repellent is ideal for use primarily on architectural concrete, concrete block, splitface block, pavers, stucco, porous and dense brick, clay tile, exposed aggregate concrete, sandstone, and slate.

RECOMMENDED SUBSTRATES

Architectural Concrete	Clay Tile	Splitface Block
Brick (Porous & Dense)	Exposed Aggregate	
Concrete Block (CMU)	Sandstone	
Concrete Pavers	Slate	

CONFORMANCE STANDARDS

MPI approved in category 34

TINTING AND BASE INFORMATION

4-6100 Clear

Do not tint.

FEATURES AND BENEFITS

Features

- Water Repellent
- Protects Porous Surfaces
- Clear
- Recoatable
- Easy Application
- MPI #34 approval

PRODUCT DATA

- PRODUCT TYPE:** Silane / Siloxane Emulsion
- SHEEN:** Not Applicable
- WEIGHT SOLIDS:** 35% +/- 2%
- WEIGHT/GALLON:** 7.9 lbs. (3.6 kg) +/- 0.2 lbs. (91 g)
- VOC:** <400 g/L (3.3 lbs./gal.)

COVERAGE: Coverage Rates and Dilution Recommendations (Clean Water)

	Coverage ft. ² /gal.	Dilution Ratio (4-6100:Water)
Architectural concrete	150 - 175	1:14
Concrete block	40 - 50	1:9
Splitface block	40	1:9
Concrete pavers	80 - 100	1:9
Stucco	80 - 125	1:9
Porous brick	80 - 100	1:14
Dense brick	100 - 125	1:14
Clay tile	100 - 125	1:14
Exposed aggregate	125 - 150	1:14
Sandstone	80 - 100	1:9
Slate	150 - 175	1:14

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

DRYING TIME: Dry time @ 77°F (25°C); 50% relative humidity.

- To Touch: 1 hour
- To Handle: 1 hour
- For Pedestrian Traffic: 24 hours
- For Vehicular Traffic: 72 hours

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

CLEANUP: Clean tools and hands immediately with warm, soapy water.

DISPOSAL: Contact your local environmental regulatory agency for guidance on disposal of unused product. Do not pour down a drain or storm sewer.

FLASH POINT: Over 200°F (93°C)

Benefits

- Lengthens substrate life and reduces maintenance costs
- Penetrates and seals recommended substrates
- Maintains natural appearance
- Allows flexibility for additional looks and appearances
- Turns jobs faster
- Meets strict performance and aesthetic requirements

GENERAL SURFACE PREPARATION

Remove mildew, dirt, oils, grease, wax, release agents, other coatings, chalk, efflorescence, etc. by an appropriate cleaning method. Remove mildew by washing with a mixture of 1 part liquid chlorine bleach to 3 parts water. Before use, be sure to read and follow instructions and warnings on label. Rinse thoroughly. Clean laitant substrates in good condition by sweep blasting, power washing, wire brushing, etc. to remove loose material. Dry substrate thoroughly to a moisture content under 12%. Note: All previous sealers and paint must be removed from the substrate surface in order for the product to penetrate and react to provide water repellancy.

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 sealing. The pH of the substrate must be less than 13 before sealing with two coats. 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 sealing. The pH of the substrate must be less than 13 before sealing with two coats.

CONCRETE/MASONRY BLOCK: Mortar should cure for at least 7 days and preferably 30 days prior to sealing. The pH of the substrate must be less than 13 before sealing with two coats.

STUCCO: New stucco should cure for at least 7 days and preferably 30 days prior to sealing. The pH of the substrate must be less than 13 before sealing with two coats. Surface chalk from the curing or aging process should be removed prior to application.

RECOMMENDED PRIMERS

Product is self-priming. Refer to surface preparation recommendations.

PACKAGING

1-Gallon (128 fl. oz. bottle)

LIMITATIONS OF USE

Apply only when air and surface temperatures are above 40°F (4°C) and at least 5°F (3°C) above the dew point. Avoid painting late in the day when dew or condensation are likely to form or when rain or snow is anticipated within 12 hours. For optimum application properties, bring material to at least 50°F (10°C) prior to application.

Do not apply to horizontal concrete floors that do not have a vapor barrier underneath, or to other surfaces where moisture gets behind the sealer. Not recommended for use on surfaces demonstrating hydrostatic or high vapor pressure or for immersion service. Not intended for wood. Avoid exposure to solvents; strong acids and bases; wipe up oil and gasoline spills immediately.

Substrates which are coated with *Perma-Crete Aqua-Pel* Clear Water Repellent at dilution rates of 1:4 or higher are generally recoatable with water-based and solvent-based paints. Dilutions of less than 1:4 will not be paintable. *Perma-Crete Aqua-Pel* Clear Water Repellent can be used as a primer to provide improved adhesion with paints on mineral substrates. Allow 30 days for the product to react and cure prior to the application of additional coatings. For optimum performance, all diluted material should be applied within same day of preparation.

PROTECT FROM FREEZING. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

While this product provides a mildew resistant coating, growth may still occur if the substrate is not properly prepared prior to painting and/or if the substrate is consistently exposed to conditions conducive to mold, mildew, and algae.

APPLICATION INFORMATION

Stir or shake thoroughly before use and occasionally during application. Product must be blended with water (tap water is suitable) to achieve the desired concentration before application. See dilution recommendations under Coverage. Read all label and Safety Data Sheet (SDS) information prior to use. SDS are available through our web site or by calling 1-800-441-9695.

Application Equipment: Apply by airless sprayer, conventional sprayer, conventional garden sprayer, or high-quality brush. Apply two light coats of the solution wet-on-wet. Avoid excessive spreading and reworking. To achieve best results for vertical application, start at the bottom of the wall and work in left/right - right/left and upward. Maximum repellency is realized in 72 hours, depending on curing conditions. Beading generally improves over time. Note: Cover and/or protect areas from application and overspray where product is not desired.

Airless Spray: Minimum requirements - Pressure 700-800 psi; tip size .009"-.013"; flow rate 0.5 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.

Conventional Spray: DeVilbiss MBC-510 gun; E tip; 704 Air Cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator; 20 psi fluid pressure; 40-60 psi air pressure.

Brush: High Quality Polyester/Nylon Brush

Thinning: See dilution recommendations under Coverage.

Permissible temperatures during application:

Material:	50 to 90°F	10 to 32°C
Ambient:	40 to 100°F	4 to 38°C
Substrate:	40 to 100°F	4 to 38°C

PRECAUTIONS

DANGER! CAUSES EYE BURNS. HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. The product may not be stable under certain conditions of storage or use: high temperature/pressure hazard. Do not swallow. Do not get in eyes. Avoid breathing vapor or mist. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Provide fresh air ventilation during and after application and drying. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Use personal protective equipment as required. Note: These warnings encompass the product series. Prior to use, read and follow product-specific SDS and label information. **FIRST AID:** If swallowed, rinse mouth with water (only if the person is conscious). Call physician immediately. Do not induce vomiting unless directed to do so by medical personnel. If in eyes, rinse with water for 15 minutes. Check for and remove any contact lenses. Call physician immediately. If on skin, rinse well with water. Wash with soap and water. Get medical attention if irritation develops. If inhaled, remove to fresh air. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. Keep out of the reach of children. For workplace use, an SDS is available from your retailer or by calling (412) 492-5555. EMERGENCY SPILL INFORMATION: (412) 434-4515 (U.S.).

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PPG Industries, Inc.
Architectural Coatings
One PPG Place
Pittsburgh, PA 15272
www.ppgpaints.com

Technical Services
1-800-441-9695

Architect/Specifier
1-888-PPG-IDEA

PPG Architectural Coatings Canada Inc.
1550 rue Ampère, Suite 500
Boucherville (Quebec) J4B 7L4

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