



PAVER RENEU NATURAL WATER BASE

MAXIMUM PROTECTION • NATURAL APPEARANCE

DESCRIPTION

PAVER RENEU NATURAL WATER BASE, is a cost effective commercial and residential grade, high performance breathable, efficient waterborne penetrating water repellent sealer that deeply penetrates into new (14 day minimum) or existing concrete and masonry surfaces. Surfaces treated with Powerseal 20 have a totally natural appearance.

Paver Renew Natural Water Base stops the intrusion of water, salts, deicer chemicals, and acids, which often result in efflorescence, mildew growth, corrosion, scaling, spalling, surface erosion, and other costly damage to hard surfaces.

Paver Renew Natural Water Base penetrates into the pores and capillaries of the cement based materials reacting with the moisture and chemicals in the substrate, polymerizing and sealing the pores, which prevents water, chemical and chloride ION penetration.

Powerseal is specially formulated with a reduced evaporation rate so the active ingredients react with the substrate rather than evaporate with the solvent or water as in competitive products. Material efficiency is increased, making Powerseal more effective than competitive products.

BENEFITS

- Extends the life of concrete and masonry surfaces
- Better long term protection against salt corrosion, deicing chemicals, mildew, water, wind driven rain, airborne contaminants surface spalling from freeze/thaw cycles and other harsh weather conditions.
- Reduces corrosion of rebar and surface erosion in reinforced concrete
- An effective chloride screen.
- Prolongs the surface life and prevents damage from within by maintaining vapor permeability of concrete
- Excellent water repellency.
- Can be applied to concrete surfaces that are slightly damp
- Suitable for alkaline concrete surfaces
- Water base - safer to use - low odor
- Does not alter natural surface texture or appearance

PRE-INSTALLATION NOTES

- A test application is necessary on each surface to be treated to ensure compatibility and desired water repellency. Test areas are also useful in determining final application rate and procedures.
- If the material in the test area does not fully penetrate due to an existing coating or inadequately cleaned surface, use one of **Vexcon's cleaners and stain removal products** to properly clean the surface prior to application.
- If a tacky residue remains after 24 hrs, the application rate must be modified. Material which remains tacky on the surface can usually be removed by washing with water or a vinegar solution.
- Tests should be applied using the same equipment and techniques planned for job application.
- Test areas should be available for inspection by the project engineer.
- Adjoining glass, metal and painted surfaces should be protected from over spray and splash. Inadvertent splashes should be removed using **Certi-Vex Equipment Cleaner** before the solution has dried on the surface.

SPECIFICATIONS/COMPLIANCE

Paver Renew Natural Water Base has been tested according to the most current test procedures in the industry. Testing includes water absorption/repellency ratings, penetration and salt spray resistance. Test reports are available.

- VOC <100 grams/liter or <0.83#/gallon
- Meets:
 - USEPA AIM-Waterproofing Sealers and Treatments
 - OTC - Waterproofing Concrete/Masonry Sealers
 - LADCO - Waterproofing Concrete/Masonry Sealers
 - Canada - Waterproofing Concrete/Masonry Sealers
 - CARB - Waterproofing Concrete/Masonry Sealers
 - SCAQMD - Rule #1113 - Waterproofing Concrete/Masonry Sealers
- Meets & Exceeds NCHRP 244 Series II & IV
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 - Water Loss Reduction, coated samples, 14 days/50% RH >80%
 - Water Loss Reduction, coated samples, 21 days/15% UV >80%
 - Reduction of Chloride Penetration into concrete, (0-1"- Coated >80%, - UV >90%), (0-2"- Coated >90%, - UV >80%)
- NCHRP 244 Series II & IV
 - Reduces water absorption (ASTM C67 and ASTM C642) by greater than >80%.
- ASTM C672 Scale rating - 50 freeze thaw cycles-0 (no scaling).
- Penetration (1 application) 0.150 -0.26", depending on substrates.
- ASTM E96 - Water Vapor Permeability >90%.
- ASTM D2047 - Coefficient of friction 0.84 average – minimum required 0.50.
- Efficiency test - Powerseal yields 210% more silane than alcohol based products. See Technical Note #TN100 for more information.
- CSI reference: 07 19 16

EXCLUSIVE PROTECTIVE COLLOID EMULSION TECHNOLOGY

Powerseal water repellents are produced with Vexcon's proprietary protective colloid emulsion technology. This technology prevents premature hydrolysis of the silane with the water used as a carrier in the emulsion. Premature hydrolysis is a process that reduces the effectiveness of water repellents.

SPECIAL NOTES

- The product should be stored in sealed containers
- Can apply to 40°F
- Protect from freezing
- If properly stored in its original sealed container, six months. Rotate your stock
- For use by experienced contractors only

PACKAGING

Paver Renew Natural Water Base is available in 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

SURFACE PREPARATION

- All caulking, patching and joint sealants should be installed and fully cured prior to application.
- Concrete should be properly cured, see Curing Recommendations section.
- All surfaces must be cleaned free of dust, dirt, surface materials, previous coatings and contaminants.
- New concrete normally does not require etching. However, slick trowel finished concrete that has become heavily contaminated with surface dirt, tire marks, oil, etc., during construction may require thorough cleaning and a mild etch using **Paver Reneu Etch & Efflorescence Remover** for best performance.
- Older concrete surfaces should be power washed with high-pressure water and **StarSeal Brick & Masonry Cleaner** to assure removal of surface dirt, oil and contaminants that may have built up over the years and use **Paver Reneu EF Stripper** to remove old cure and seals, resin cures, acrylics, adhesives, floor waxes and many urethanes and epoxies.
- To determine that the concrete is penetrable perform a water absorbency test by applying water to a representative portion of the prepared surface. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.
- If required use **Paver Reneu Etch & Efflorescence Remover** to improve sealer penetration.
- Application to still damp surfaces is acceptable however free standing water must be removed.
- Surfaces to be treated may be damp but should be absorbent to assure good penetration.

CURING RECOMMENDATIONS

- A. Concrete can be cured with **Certi-Vex® Envio Cure**, an emulsion resin cure, which will dissipate. Allow to dissipate or remove with **Paver Reneu EF Stripper**.
- B. Water cure-burlap
NOTE: Sodium Silicates should not be used to cure concrete

APPLICATION

- Paver Reneu Natural Water Base should not be diluted or altered, see Coverage rates.
- Apply with low-pressure (20-PSI) airless industrial spray equipment. Sprayer should be fitted with solvent resistant hoses and gaskets.
- If using brushes or rollers care should be taken to ensure that enough solution is applied.
- Treated surfaces should be protected from rain and foot traffic for 4-6 hours following application.
- Protect from vehicular traffic for 24 hours.

VERTICAL SURFACES

- Paver Reneu Natural Water Base should be applied and absorbed on the substrate to the specified coverage rate. In the case of extremely dense, mirror finish architectural concrete and similar surfaces, it may be necessary to restrict the amount of material by first applying a light mist coat by the procedure listed below in order to prevent surface darkening.
- Allow the mist coat to penetrate the masonry surface (approximately 3-5 minutes) and apply in the same saturation manner.
- Apply Paver Reneu Natural Water Base in a flooding application, from the bottom up with sufficient material applied to provide a 6" to 8" run down below the contact point of the new spray pattern with the masonry surface.

HORIZONTAL SURFACES

- Paver Reneu Natural Water Base should be applied in a single saturating application with sufficient material applied so the surface remains wet for a few minutes before penetration into the surface.
- Surface residues, pools and puddles should be broomed or brushed out until they completely penetrate into the surface.

PHYSICAL PROPERTIES

- Color wet Milky white
 - Color dry Clear
 - Dry Time 4-5 hours
 - Solvent Water/Emulsion
 - Total Solids and active ingredients by wt. 20%
- Dry times are based upon 68-77 °F (20-25°C). Lower temperatures and the relative humidity will extend dry times.

COVERAGE RATES/ESTIMATING

Porosity and texture of the surface will affect the amount of material necessary for effective treatment. The following is a guide for estimating total material requirements. Always test on the actual surface to get precise consumption rates.

- **Pavers** 150-175 sq.ft./gal. (3.50-4.25m²/L)
- **Concrete/Horizontal**
 - Broom finish 125-140 sq.ft./gal. (3.1-3.5m²/L)
 - Smooth Hard Trowled 250 sq.ft./gal. (6.25m²/L)
 - Older concrete (Porous) 95-140 sq.ft./gal. (2.4-3.5m²/L)
 - Pavers 125-140 sq.ft./gal. (3.1-3.5m²/L)
 - Tiles 250 sq.ft./gal. (6.25m²/L)
- **Concrete/Vertical**
 - CIP or Precast 150-200 sq.ft./gal (3.5-5 m²/L)
 - Stucco 95-140 sq.ft./gal (2.4-3.5 m²/L)
- **Architectural Concrete block**
 - Smooth-faced 95-140 sq.ft./gal (2.4-3.5 m²/L)
 - Split-faced 50-100 sq.ft./gal (1.25-2.5 m²/L)
 - Ground-faced 200-250 sq.ft./gal (5-6.25 m²/L)
 - Ribbed 50-100 sq.ft./gal (1.25-2.5 m²/L)
- **Brick**
 - Smooth 125-140 sq.ft./gal (3.1-3.5 m²/L)
 - Wire cut 50-100 sq.ft./gal(1.25-2.5 m²/L)
- **Manufactured Stone**
 - Dependant on porosity 140-250 sq.ft./gal(3.5-6.25 m²/L)

HEALTH AND SAFETY

- Use only with adequate ventilation.
- Use of gloves, goggles and other protective clothing is advised when using this product.
- If swallowed, do not induce vomiting.
- Use of respirators is advised when using in confined areas.

Vexcon MSDS PV135 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

CONTACT US@

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly, or our distributors.

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