

REC GUARD 7900

ACRYLIC-SILOXANE WATER REPELLENT

DESCRIPTION

REC GUARD 7900 is a breathable water repellent that penetrates into the sub-surface of concrete or masonry to bind the substrate down and impart excellent water repellent properties. **REC GUARD 7900** is highly recommended for use on above ground concrete, cement, natural and synthetic stone, brick, block, and most masonry vertical surfaces. By preventing water from entering into the substrate, **REC GUARD 7900** will help protect masonry substrates against spalling, cracking, efflorescence, and other types of damage typically caused by water intrusion. **REC GUARD 7900** is excellent for reinforcing the surfaces of old brick and mortar that have been damaged by repeated cycles of freezing and thawing and helping to prevent water intrusion through the mortar. **REC GUARD 7900** will also minimize the leaching and migration of typical masonry dis-colorants such as calcium, sodium, and potassium salts.

PRIMARY APPLICATIONS

- Tilt-Up Concrete Walls
- Concrete Block
- Brick
- Mortar
- Split-Faced Block
- Stadiums
- Bridges and Structures
- Parking Garages
- Schools
- Chimneys
- Driveways
- Sidewalks

REC GUARD 7900 is not recommended over asphalt surfaces or for immersion service.

TECHNICAL INFORMATION

Finish:	N/A
Solids:	11.6% by weight/11.0% by volume $\pm 2\%$
Weight/Gallon:	8.4 $\pm$ 0.1 Pounds
Flash Point: Water-based paint:	Not applicable
Vehicle Type:	Acrylic-Siloxane
VOC:	175 grams per liter; 1.46 lbs/gal
Color	Clear
DRY TIME @ 77°F and 50% relative humidity	
To Touch:	30 Minutes
To Handle:	1 Hour
To Full Cure:	7 to 10 Days full crosslink density
Water Repellency	Alkali Resistance: ASTM D1308
Immersion:	PASS
10%NaOH:	PASS
Rilem Tube:	PASS
5% NaOH:	PASS

DIRECTIONS FOR USE

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information contact your local health authority.

GENERAL

The surface to be sealed should be dry and free of as much dirt, chalk, grease, asphalt, mildew, oil, rust, or other foreign contaminants as can be removed. Remove grease and oil from the surface with a detergent solution, rinse thoroughly, and allow the surface to completely dry. All bond breakers and form release compounds must be removed prior to application of this product, which may require extended weathering, hot water or sand blasting. Existing peeled or checked paint should be scraped and sanded to a sound surface.

The mortar in the masonry should be allowed to age in service for approximately two weeks before **REC GUARD 7900** should be applied. All cracks and mortar joints must be repaired and repointed prior to application. Application should not be attempted if it has rained in the past three or four days or if rain is anticipated within 24 hours after application.

To determine if the surface is sealed with another coating or curing compound, sprinkle water onto the surface. If the water is absorbed and the surface becomes darker, the surface is not sealed. If the water beads up, the coating or curing compound must be removed before continuing with the project. It is crucial for this coating to penetrate the substrate.

For horizontal, very smooth or hard surfaces, acid etching before applying this product is recommended. This will allow the sealer to penetrate into the surface. Remove any residue or efflorescence that remains and neutralize the area by rinsing with water mopping, up the residue and allowing the area to thoroughly dry before applying this product.

TESTING

Due to a variety of substrates, application methods and masonry components, this product should be tested in an inconspicuous area for adhesion and compatibility before application to the entire job. To determine if the surface is sealed with another coating or curing compound, sprinkle water onto the surface. If the water is absorbed and the surface becomes darker, the surface is not sealed. If the water beads up, the coating or curing compound must be removed before continuing with the project. It is crucial for this coating to penetrate the substrate.

*This product must penetrate the substrate in order to work. **SMOOTH (TROWELED) OR GLAZED SURFACES**

Use full strength concrete etching solution; 1-part solution to 2-parts water. This should open the surface to allow penetration. Only etch horizontal surfaces and follow label directions fully. Rinse clean. pH of the surface should be 7 to 10.

MILDEW

Wash mildewed surfaces with a solution of 1 part household bleach to 3 parts water. Scrub mildewed surface if necessary, and rinse thoroughly. Follow bleach manufacturer's directions for use and wear appropriate protective equipment including eyewear, gloves, and protective clothing. Wash any contacted skin immediately and thoroughly with copious amounts of water. Never add ammonia or detergents to a bleach/water solution.

If you have any questions about proper surface preparation, check your surface preparation guide or consult your RECKON's representative.

APPLICATION

PRECAUTIONS

Do not apply if the atmospheric temperature or the substrate temperature is below 50°F or above 90°F. Applying product to a substrate under 50°F can cause inadequate film formation and will not provide correct level of water resistance. Do not paint if relative humidity is above 85%. Do not paint late in the day when dew or condensation is likely to form or when rain is threatening or if the temperature falls below the dew point.

This product needs at least 7 days to fully react before performance can be evaluated.

If surface is damp or wet from weather or cleaning, allow the surface to completely dry before applying this product.

This product cannot be coated over film-forming paints, stains, or sealers.

On dense masonry, wet masonry, Marble, dense Limestone or masonry that bond formers have not been removed, **REC GUARD 7900** will not penetrate adequately. The product will remain at the surface possibly causing a milky, whitish looking finish. If **REC GUARD 7900** remains at the surface and does not adequately penetrate the surface, the sealer will not work properly.

Due to a wide range of substrates and application methods, the customer should test the product in an inconspicuous area for adhesion and compatibility before coating entire project.

Careful attention should be given to wind direction and speed when spraying this product. Spray mist can carry a far distance coating unwanted substrates.

This product is not a waterproofing system. As such, it will not adequately stop heavy wind driven rain.

This product will not bridge large holes or cracks. Care should be given to split faced block and CMU with medium to large holes in the face.

EQUIPMENT

Use a pump-up sprayer (10-25 PSI) or a conventional or airless spray with a 0.011 – 0.015 spray tip @ 700 - 1000 psi. Apply at temperatures above 50°F. Use a quality synthetic brush or 1/2" to 3/4" nap synthetic roller cover

This product should be applied in a "flood coat" (The product is designed to be put on so that it floods the substrate, and excess coating runs out/over the surface of the substrate.), achieving a 6" to 8" run, starting at the top and working downward. Two wet on wet coats should be applied on very porous block and one coat should be applied on brick or dense concrete in order to achieve the desired protection. Wait approximately 30 minutes between coats if applying two coats. If the first coat does not fully penetrate, do not apply a second coat. A slight sheen will be visible on more dense substrates at suggested rates. Test a small area first in order to determine number of coats needed.

THINNING

Do not thin

CLEAN-UP

Warm, soapy water

COVERAGE

Concrete Block Surfaces: 50-75 Ft²/Gal Split Faced or Fluted Block: 25 – 75 Ft²/Gal Brick or Dense Surfaces: 150-175 Ft²/Gal Steel Troweled Concrete: 150 – 200 Ft²/Gal

Actual coverage figures will vary greatly with the porosity of the surface. For most masonry surfaces, it is recommended to apply this product at the top and working down the surface.

PACKING

REC GUARD 7900 is available in 5 Kg and 20 Kg and 200 Kg Pack.

STORAGE

SHELF LIFE

REC GUARD 7900 has a shelf life of 12 months when stored in warehouse conditions below 30°C in the original, unopened packs.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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