

Prime Protect SWR

Water-Based, Penetrating Water Repellent for Concrete and Masonry

Description

Prime Protect SWR is a ready-to-use, water-based siloxane/silane penetrating water repellent sealer. It soaks into the substrate and forms a water and chloride barrier that protects concrete and masonry from the damaging effects of water and salts, especially in freeze-thaw climates and marine environments. Prime Protect SWR is a breathable sealer that does not alter the appearance or texture of the substrate.

Primary Applications

- Sidewalks
- Ramps
- Walls
- Industrial floors
- Parking decks

Advantages

- Low VOC content
- Breathable
- Non film-forming; leaves no gloss or shine
- Can contribute to LEED points

Packaging

- 5 gallon (18.9 L) pails and 55 gallon (208 L) drums

Specifications/compliances

Meets the performance standards of NCHRP 244 as well as Federal specification SS-W-110C. Complies with all U.S. EPA and local VOC regulations, including OTC, LADCO, Maricopa County, and California (CARB and SCAQMD) Canadian MTQ.

Technical Information (typical engineering data)

The following are typical values obtained under laboratory conditions. Expect reasonable variation under the field conditions.

Material Properties @ 75°F (24° C)	
Flash Point	> 200°F (93°C)
Weight / gal.	8.4 lbs.
VOC content	50 g/L
Active content (by weight)	10%
Viscosity	50 cp
Drying time at 70°F (21°C)	1 to 2 hours
Foot Traffic	4 to 6 hours

Material Properties @ 75°F (24° C)	
Wheel Traffic	10 to 12 hours
Average Depth of Penetration	3/8" (9.5mm)
Absorption Reduction	88%
NCHRP Report No. 244 Reduction in Chloride Ion content	<u>21 days</u> 89%
Reduction in Water absorption	<u>21 days</u> 85%

Shelf Life

1 year in original, unopened container

Coverage

Approximate Coverage ft²/gal (m²/L)

Surface	1st Coat	2nd Coat
Dense	100 to 150 (2.45 to 3.68)	-
Porous	100 to 150 (2.45 to 3.68)	100 to 150 (2.45 to 3.68)

Because of variations in surface density, these coverage rates are approximate and for estimating purposes only. Use test applications on actual surfaces to accurately determine coverage rates. Extremely porous surfaces may require two coats of Prime Protect SWR. When two coats are required, apply the second coat on the still wet first coat by following a "wet on wet" technique.

Directions for Use

Surface Preparation: Cure new concrete a minimum of 3 days before application. Surface must be clean, dry and structurally sound. The substrate must also be free of all curing compounds, form release agents and any other contaminants which may prevent the proper penetration of Prime Protect SWR .

Prior to application, moving joints or cracks must be properly sealed with an elastomeric joint sealant. Non-moving cracks or voids wider than 1/64 inch (0.4 mm) must be filled with a suitable material. Surfaces must be dry for a minimum of 24 hours prior to application. Mask all adjacent surfaces incl. grass, plants, shrubs and asphalt to protect from drips or over spray.

Mixing: Prime Protect SWR does not normally require mixing.

Application: For best results, it should be applied using low pressure, non-atomizing, airless spray equipment. A garden sprayer may be used for smaller projects only when an airless sprayer is not available. To produce the proper material flow, reduce air pressure on pumping equipment and use spray tips with orifice sizes no smaller than 0.035 inch (0.9 mm). Larger tips may be required with some spray equipment to get desired material flow. Flood the surface with Prime Protect SWR using a low pressure sprayer. A roller or broom may also be used. Distribute material evenly. Do not allow the material to puddle. When applying to vertical surfaces, work from the bottom up.

Clean-up

Clean drips, runs, and overspray residue while still wet, using detergent and water. Dried material may require mechanical abrasion for removal. Clean application and spray equipment with detergent and water immediately following use.

Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: Non-Hazardous

Precautions/Limitations

Store between 40°F to 90°F (4°C to 32°C). PROTECT FROM FREEZING. Temperature of air and surface must be at least 40°F (4°C) and rising. Do not dilute. Do not allow to puddle. All product should penetrate the substrate with no surface build-up. Do not apply if rain is expected within 12 hours.

Can be applied to pH neutral surfaces; however, longer cure times may be required to develop full repellency. SWR is non-flammable and non-hazardous. Product may exhibit minor settling upon storage. Agitation prior to use may be necessary. A small (6' x 6') test area is strongly recommended prior to starting full application, in order to ensure desired performance results, aesthetics, and coverage rates. Allow 5 to 7 days for product to fully react before evaluating. In all cases, consult the Safety Data Sheet before use.

Health & Safety

Safety: See SDS for complete safety precautions prior to use. Use approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. For professional use only.

First Aid: Eye Contact: Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately.

Skin Contact: Wipe off contaminated area. Wash with soap & water.

Warranty & Disclaimer

Prime Resins Inc. warrants their products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by the Manufacturer are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. The Manufacturer will not be liable for damages of any sort resulting from any claimed breach of warranty since it has no control over how the products are used and applied. The Manufacturer's liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

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