



PWR

Penetrating Water Based Silane/Siloxane Water Repellent

DESCRIPTION

PWR is a water-based, solventless emulsion of silane and siloxane to be used as a high quality, general purpose water repellent for impregnating concrete or masonry to provide long term weatherproof protection. PWR reduces the capillary absorption of the structure which it has penetrated, but does not clog pores or capillaries. There is therefore little or no impairment of the structure's ability to "breathe". Usage of this product increases concrete and masonry service life as it prevents attack by moisture, chloride ions and other alkalis as well as inhibiting efflorescence and spalling due to freeze-thaw cycles.

USES

PWR is an excellent water repellent for many substrates including brick, concrete, masonry, stucco and natural sandstone. Different from membrane forming sealers, PWR is a penetrating sealer that allows the substrate to breathe.

BENEFITS

- Penetration: Deep depth of diffusion
- Resistant: Greatly improves resistance to moisture, deicing salts, chemical attack
- Performance: Rapid development of water repellency
- Bond: Provides good adhesion for paints
- VOC Compliant: No solvents
- Breathes: Excellent vapor transmission
- Pre-Blended: Ready to use
- Efficient: Easy application and clean up
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with PWR shall be free of dirt, oil, grease, laitance and other contaminants that may act as bond-breakers. All unsound concrete should be removed. Surface must be structurally sound and free of all contaminants. A suitable concrete cleaner not harmful to concrete should be used as a degreaser and to remove rubber tire marks. Thoroughly rinse and allow surface to dry prior to application.

COVERAGE

Actual rates may vary depending on type and porosity of the surface and application method. Recommended coverage is as follows:

Sealing:	50–300 ft ² /gal
Second Coat:	200–400 ft ² /gal

MIXING

For best results, mix thoroughly before each use. Do not over agitate or use high speed mixing equipment.

PHYSICAL PROPERTIES

Complies with V.O.C. contents in accordance with Federal EPA 40 CFR Part 59 Table 1, Subpart D for Concrete Curing and Sealing.

V.O.C.	0 g/L
Color	Milky White
Flash Point	Non-Flammable
Dry Time	2 hrs at 70°F (21°C)
Staining	None
Shelf Life	1 Year
Active Content	5%

PLACING

Apply with a low pressure sprayer, brush, or roller. Spray application is recommended. A hand held pump sprayer or an airless industrial sprayer is acceptable. Apply evenly without puddling. Brush out runs and puddles immediately. Two "wet on wet" coats are needed to ensure complete coverage and maximum protection. Do not interchange use of sprayer that has been used to spray a solvent based product.

On vertical surfaces, apply the material from the bottom of the wall upwards. Apply the first coat and allow to penetrate for 5-10 minutes. Apply the second coat in the same manner.

On horizontal surfaces, apply the first coat saturating the surface allowing to penetrate for 3-5 minutes. Apply the second coat in the same manner. For hard troweled surfaces apply a single coat. Always test for proper application rate.

STORAGE

Protect from freezing. Store material in an interior, cool dry place above 45°F (7°C). Shelf life is one year in original, unopened container.

CLEAN-UP

Clean tools and equipment with warm, soapy water.

LIMITATIONS

In addition to the limitations already mentioned, please note the following. If it starts to rain, stop treatment and cover the impregnated areas. Do not apply to a wet surface. New concrete must be cured a minimum of 14 days. Do not apply when the temperature of the concrete is below 40°F (4°C). Do not mix with any other products. Do not pour unused material back into original container. Not effective on natural stone applications. Over application may darken concrete. Allow 24 hours for foot and wheeled traffic.

Packaging: 1 gal (3.8 L), 5 gal (18.9 L) pail, 55 gal (207.9 L) drum

**PWR***Penetrating Water Based Silane/Siloxane Water Repellent***WARNING**

May cause eye damage/irritation. May cause skin irritation. May cause respiratory irritation. Wear protective gloves and eye/face protection. Wash with plenty of water and soap thoroughly after handling. Avoid inhalation of vapors. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area.

FIRST AID

If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: call a poison center or doctor/physician. If swallowed: contact a poison control center/doctor if you feel unwell. Rinse mouth. If on skin: wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice. Take off contaminated clothing and wash it before reuse.

MANUFACTURER/TECHNICAL SERVICE

Contact your US SPEC manufacturer's representative for the most current product information. Always read and follow the warnings and instructions on the most current technical data sheets, available online at www.usspec.com.

US MIX Co.
112 South Santa Fe Drive
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Web Site: www.usspec.com

NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price. See product packaging for complete limitation of warranties and liability.