

# WEATHER WORKER™ J-29 WB

PENETRATING SILANE SEALER V.O.C. COMPLIANT.

A High Performance Penetrating Sealer That Does Not Require the Masking or Cleaning of Windows or Metal

#### PRODUCT DESCRIPTION:

Weather Worker J-29 WB is a proprietary 40% blend of silane in water that penetrates into concrete or masonry and provides true long term weatherproofing protection. J-29 WB is a single component product that is ready-to-use and typically requires only one application. The J-29 WB, because of its very small molecular size, can penetrate deeper into the substrate than conventional sealers and even deeper than a typical siloxane sealer. Once the silane molecule penetrates the surface, it chemically reacts with and bonds to the concrete substrate. This bond is equal in strength to the actual bond that holds the substrate together. As a result of this strong chemical bond combined with the fact that the silane molecule is now buried in the substrate (away from the damaging affects of the sun and the weather), the silane waterproofing protection will last many times longer than conventional coatings. J-29 WB will not darken the surface or leave a visible surface film. It is ideal for aesthetic/architectural surfaces. In independent testing, J-29 WB allowed perfect moisture vapor transmission or breathing of the substrate. This ability to breathe helps prevent potential damage to the substrate which includes freeze-thaw damage.

#### PURPOSE:

J-29 WB provides outstanding long term weatherproofing protection for all types of concrete and masonry surfaces. In independent testing done according to the N.C.H.R.P. Report 244 J-29 WB passed both the water absorption phase (Series IV) and reduced chloride ion intrusion into concrete by over 90%. This type of protection will dramatically increase the life expectancy of concrete or masonry. J-29 WB also dries quickly, allowing traffic to resume sooner over a treated surface.

#### J-29 WB Protects All Types of Structures (New and Old):

- Poured-in-Place Concrete
- Precast and Prestressed Concrete
- Exposed Aggregate Concrete
- Brick
- Mortar
- Stucco
- Sandstone

#### J-29 WB S-40 Prevents or Inhibits:

- Moisture Penetration
- Attack by Deicing Salts (Chloride Ions)

- Mildew and Leaching
- Spalling Caused by Freeze-Thaw Cycles
- Efflorescence
- Surface Scaling

#### ADVANTAGES:

- Small molecules/results in deep penetration
- Outstanding protection against deicing salts and chloride ions (over a 90% reduction)
- Passes the N.C.H.R.P. Report 244
- Will not change the traction or skid resistance of a surface
- No color change; will not darken surface
- Strong chemical bond to the substrate
- V.O.C. compliant

#### SPECIFICATIONS:

- Active Material - 40% minimum by weight
- N.C.H.R.P. Report 244 on application of 100 FT<sup>2</sup>/gal.
- Chloride Screened - 96%
- Repellency Factor - 98.6%

- ASTM C-642, Water Absorption: 0.364%
- ASTM C-672, Scaling Resistance: No Scaling 125 cycles

#### V.O.C. CONTENT:

Less than 250 g/l. Complies with Federal EPA & OTC Standards for Waterproof Sealers.

#### APPLICATION INSTRUCTIONS:

##### Preparation:

New concrete must be cured a minimum of 28 days. Water curing using wet burlap or other appropriate sheet method is preferred. Tuckpointing must cure a minimum of 3 days and caulking should be fully cured before application. Concrete surfaces should be clean and free of dirt, oil, grease and other contaminants. New concrete surfaces may only require sweeping, however, if construction traffic has been excessive, washing with 2000 psi (14 MPa) pressure water may be necessary. On older concrete surfaces, sandblasting, steel shotblasting (ie Blastrac), or high pressure cold water of sufficient pressure may be used.

Chemical cleaning or high pressure hot water may also be used. Rinse thoroughly after chemical cleaning. The surface pores must be opened up sufficiently to allow immedi-

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ate penetration of J-29 WB. A good test is to place a few drops of J-29 WB onto the clean surface. J-29 WB should be immediately absorbed into the surface or else additional cleaning may be necessary.

## Installation:

Before application, the surface should be completely dry. Allow at least 24 hours with sunshine for drying if the surface was wet. Do not apply below 40°F (4°C) or above 100°F (38°C). Do not apply if rain is expected within 3 hours. Do not apply during very windy conditions. Cover and protect all areas that are not to be treated by J-29 WB like glass, aluminum, metal, grass, shrubs, plants, and vegetation. Also protect all asphalt based materials and painted surfaces. Apply a single application of J-29 WB with low pressure spray equipment (15 psi or .1 MPa) roller or broom. Use a fan spray nozzle for greatest efficiency, mist spraying will only waste material. On vertical surfaces, spray J-29 WB so that it will run down the surface at least 6 inches (15 cm) below the spray pattern. Start at the bottom and work upward.

On horizontal surfaces, material should be sufficiently applied to thoroughly saturate the surface without ponding of the material, approximately 125 square feet per gallon (3 square meters per liter) depending of the porosity of the surface. Typically, the surface can be re-opened to traffic in 1 hour if the temperature is at 72°F (22°C) or above. Opened containers of J-29 WB should be tightly re-sealed when not in use. The full chemical reaction of the silane will take 5 days. Do not expect a water beading effect until after 5 days.

## APPROXIMATE COVERAGE

	FT <sup>2</sup> per Gallon	M <sup>2</sup> per Gallon
Brick	100-150	2.5 - 3.7
Concrete-Poured	100-150	2.5 - 3.7
Precast	125-150	3.0 - 3.7
Exposed Aggregate	100-150	2.5 - 3.7
Stucco	100-150	2.5 - 3.7
Cement Brick	75-125	2.0 - 3.0
Rough Stone	100-150	2.5 - 3.7
Smooth Stone	150-175	3.7 - 4.3
Glazed Brick	150-175	3.7 - 4.3

## DRYING TIME:

1 hour at 70°F (21°C)

## PACKAGING:

55 gallon (208L) drums, 5 gallon (18.9L) pails and 1 gallon (3.8L) cans.

## CLEAN UP:

Tools and equipment: Pump water through the spray equipment at the end of the day.

## LIMITATIONS:

Apply only between 40°F and 100°F. Do not apply to a damp or wet surface. Cover and protect all grass, shrubs, plants, etc. from overspray. The shelf life for an unopened container is one year. Keep containers tightly sealed when not in use. Store in a dry location. Keep from freezing. Not for use on porous concrete block.

## WARNING:

Keep out of reach of children. If swallowed, do not induce vomiting-call physician. If splashed in eyes, wash repeatedly with water. Refer to Material Safety Data Sheet for additional information.

## MANUFACTURER

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## WARRANTY

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