



OKON® W-2™ WATER REPELLENT SEALER FOR POROUS CONCRETE AND MASONRY

DESCRIPTION AND USES

OKON® W-2™ Water Repellent Sealer is a proprietary blend of acrylic micro emulsions and a silane-siloxane solution. The micro emulsions penetrate the surface to establish a water repelling barrier in the subsurface of the concrete and masonry. OKON W-2 helps protect porous concrete and masonry, medium and normal weight block, rough stucco, non-glazed concrete brick, non-glazed slump block and other comparably porous materials from the damaging effects of water absorption; efflorescence, freeze-thaw damage, dusting and staining. Its unique blend of acrylic micro emulsion, a proprietary water repellent and silane/siloxane penetrates and protects the substrate while being highly permeable to water vapor.

OKON W-2 is recommended for porous surfaces including medium weight CMU, normal weight CMU, rough stucco, porous plaster, blasted concrete and concrete brick.

PRODUCT FEATURES AND BENEFITS

- Water-based acrylic micro emulsion
- Non-yellowing
- Recoatable
- Paintable*
- Resist high alkalinity
- Resist chloride salts
- Resist blushing

PRODUCTS

DESCRIPTION	SKU
1 Gallon	OK-921
5 Gallons	OK-920
55 Gallon Drum	OK-925

PRODUCT APPLICATION

SURFACE PREPARATION

OKON W-2 can be applied to most porous concrete surfaces that are unsealed, clean (free of dirt, waxes and oils) and sound. New concrete must be cured for 28 days prior to coating. Unsealed: W-2 must be able to penetrate the surface. Test the openness of the substrate by sprinkling with water. If the surface turns dark with the water W-2 can be applied.

CLEANING

Clean the surface using oil-free, compressed air to remove loose and foreign matter that could interfere with the application or pressure wash to remove dust, sand or other foreign matter. Allow pressure washed surfaces to dry three days prior to coating. Remove exterior mildew with JOMAX® or equivalent. Remove efflorescence with sulfamic or dilute muriatic acid. Spot cleaning with acid may cause uneven porosity and blotchy appearance. Surface can be slightly damp at time of application.

PRODUCT APPLICATION (cont.)

CONCRETE AND MORTAR JOINTS

Concrete and mortar joints must be hard and firm, not loose or sandy. The surface is un-sound if it can be scraped or gouged with a flat screw driver. Unsound mortar or deteriorated concrete should be removed and repaired prior to coating. Cracks and joints must be sealed with flexible sealant. Parapet walls must be capped and backside sealed with a waterproofing membrane. Protect adjacent and underlying surfaces from over spray and rundown.

COVERAGE

The spread-rate of OKON W-2 will vary with the porosity and texture of the surface. The application rates provided below are for estimating purposes only. A test area must be applied to establish actual spread rate for each surface. After application water should bead and sheet off surface. If not, apply an additional coat. OKON W-2 can be recoated after the initial coat is dry, clear and colorless.

APPLICATION

OKON W-2 is ready-to-use, no thinning is required. Surface can be slightly damp, but not wet at time of application. In hot weather, where possible, lightly spray surface with water to cool the surface to prevent flash drying. It can be applied by garden-type sprayer but is best applied by low-pressure airless spray. Use a small to medium size airless pump (1/2-2/3 gpm) at set a low pressure (500 psi) and a 0.025-0.031" tip. Hold spray tip 12-18 inches from the surface. (Warranty jobs require airless spray application.) Start at the top of the wall and work down with an overlapping horizontal spray pattern. Make multiple application passes at the top of the wall to ensure run down of 3-5 inches down the wall. Take special care to saturate mortar joints. Do not stop or interrupt the application in the middle of the wall. Stop application only at expansion joints or breaks defined with masking tape. Back rolling is recommended to prevent streaking on more dense substrates. W-2 appears milky-white when applied but dries clear. Material that is not absorbed should be back rolled or brushed out to avoid build up. Do not allow puddles, drips or runs to dry on the surface. W-2 may slightly darken the surface and add a slight sheen.

CLEAN UP

Clean hands and tools with soapy water. Drips and runs that have dried may be removed using a strong solvent within 24 hours after application. After that time sanding may be necessary.



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PRODUCT APPLICATION (cont.)

LIMITATIONS

OKON W-2 does not provide protection against hydrostatic water pressure, efflorescence caused by internal moisture, or moisture penetration through cracks in mortar, expansion joints or junctures between dissimilar materials. W-2 will not fill large pores, bridge cracks, seal inaccessible areas, or compensate for flawed construction. Do not use on glazed or non-porous surfaces. W-2 may be intermixed with latex paints or tinted with up to 4 ounces universal colorants per gallon to produce a concrete stain. Intermixing or tinting should occur on the day of application to avoid color separation and hard settling. Use OKON PLUS COLOR Water Repellent and Stain Base to avoid settling problems. Application of W-2 may slightly darken the surface and over application may build a sheen on the surface. A mock-up should always be performed and approved by property owner. To protect more porous substrates; CMU, rough stucco or abrasive blasted concrete, use OKON PLUGGER.

OKON W-2 may interfere with paint adhesion when applied to more dense substrates like cast concrete. If over coating with paint within six months of application a test area is recommended.

KEEP FROM FREEZING WARNING! KEEP OUT OF REACH OF CHILDREN

PERFORMANCE CHARACTERISTICS

Water Resistance by Immersion

ASTM 870 PASS

Water Resistance to 100% R.H.

ASTM D2247 PASS

Water Resistance Using Fog

ASTM D1735 PASS

Water Resistance to Condensation

ASTM D4585 PASS

UV Resistance - QUV 1000 Hours - Excellent.

Breathable

ASTM D1653 Yes

Water Absorption

ASTM C140 Max. after 24 hr. 4%

Water Vapor (Perms) Transmission

ASTM E96 11.82

Durability

ASTM G53 – loss of water repellency <6%



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PHYSICAL PROPERTIES

		OKON W-2			
Resin Type		Acrylic / Silane-Siloxane			
Color		Colorless			
Solvents		Water			
Weight	Per Gallon	8.4 lbs.			
	Per Liter	1.00 kg			
Solids	By Weight	10.8%			
	By Volume	10.2%			
Volatile Organic Compounds		<70 g/l (0.58 lbs./gal.)			
Application Parameters		50°F to 100°F (7°C to 38°C) <85% Relative Humidity			
Practical Coverage rate (assume 15% material loss) (sq. ft. per gallon)		Medium wt. CMU	Smooth	Split Face	Slump
			65	50	95
		Normal wt. CMU	Smooth	Textured	Rough
			80	75	120
		Other	Rough Stucco	Concrete Brick	Broomed Slabs / Blasted Concrete
			75	65	95
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Recoat	3 hours			
	Foot Traffic	8 Hours			
	Heavy Traffic	24 hours			
Protect From Rain		24 hours			
Protect From Dew		12 hours			
Shelf Life		3 Years			
Flash Point		>200°F (93°C)			
Safety Information		For additional information, see SDS			

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