



TECHNICAL DATA

OKN-03

OKON W-1™ WATER REPELLENT SEALER FOR DENSE CONCRETE AND MASONRY

DESCRIPTION AND USES

OKON W-1 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-1 helps protect cast concrete, tilt-up panels, rough stucco and other comparably dense materials from the damaging effects of water absorption; efflorescence, mold, freeze-thaw damage, dusting and staining. It can also be used to dustproof unsealed concrete floors or pads. Its unique blend of acrylic micro-emulsion, proprietary water repellent and silane/siloxane penetrates and protects the substrate while being highly permeable to water vapor.

OKON W-1 is recommended for dense surfaces including pre-cast, adobe, granite, limestone, plaster, tilt-up, brick, exposed aggregate and rough stucco.

MPI #34, #99 Certified*

FEATURES

- Water-based acrylic micro-emulsion
- Non-yellowing
- Re-coatable
- Paintable
- Resists high alkalinity
- Resists chloride salts
- Resists blushing

PRODUCTS

SKU	Description
OK-911	1-Gallon
OK-910	5-Gallon
OK-915	55-Gallon Drum

PRODUCT APPLICATION

SURFACE PREPARATION

OKON W-1 can be applied to most *dense* 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-1 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-1 can be applied.

Clean: Clean exterior surfaces by pressure washing to remove dust, sand or other foreign matter. Vacuum and damp-mop interior surfaces. Remove exterior mildew with JOMAX® House Cleaner & Mildew Killer or equivalent. Remove efflorescence with sulfamic or dilute muriatic acid. Spot cleaning with acid may cause uneven porosity and blotchy appearance.

PRODUCT APPLICATION (cont.)

Rinse the surface thoroughly after chemical cleaning. Un-rinsed acid salts may cause whitish-blotches to appear. Use a degreaser to remove oil or grease stains. Surface can be slightly damp at time of application.

Sound: Surface of 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-1 will vary with the porosity and texture of the surface. Always apply material to test area prior to general application to establish spread rate. After application water should bead and sheet off surface. If not, apply an additional coat. OKON W-1 can be recoated after the initial coat is dry, clear and colorless.

APPLICATION

OKON W-1 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 at ($\frac{1}{3}$ – $\frac{2}{3}$ gpm) set a low pressure (500 psi) and a 0.015-0.019" tip. Hold spray tip 12-18 inches from the surface, 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 insure 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, walls or breaks defined with masking tape. Back rolling is recommended to prevent streaking on very dense substrates. W-1 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-1 may slightly darken the surface and add a slight sheen.

Horizontal Surfaces: OKON W-1 can be used to dust-proof horizontal concrete floors or pads. Steel troweled surfaces should be acid etched before using W-1 as a dust-proofer to ensure penetration. Apply by roller, garden-sprayer or airless. Do not pour product onto horizontal surfaces to spread. Apply sufficient material so that surface remains wet for several minutes before material is absorbed. After 30 minutes, back-roll remaining pools or puddles to prevent excess material from drying on the surface.

Protect shrubbery, plants, and grass, glass, metal and asphalt surfaces during application.

* Refer to the MPI website for the most current listing of MPI certified products.



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PRODUCT APPLICATION (cont.)

LIMITATIONS

OKON W-1 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-1 will not fill large pores, bridge cracks, seal inaccessible areas, or compensate for flawed construction. Do not use on glazed or non-porous surfaces. Tinting OKON W-1 is not recommended. Application of W-1 may slightly darken the color and over application may build sheen on the surface. A mock-up should always be performed and approved by property owner. To protect more porous substrates like CMU, rough stucco and blasted concrete, use OKON W-2 or OKON PLUGGER. Refer to Technical Data Bulletin for detailed use instructions.

CLEAN UP

Clean hands and tools with soapy water. Dried spills can be removed using a strong solvent within 24 hours after application. After that time sanding may be necessary.

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. 5%

Water Vapor (Perms) Transmission
ASTM E96 16.62

Durability
ASTM G53 – loss of water repellency <5%

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Physical Properties		OKON W-1			
Resin Type		Acrylic / Silane-Siloxane			
Color		Colorless			
Solvents		Water			
Weight	Per Gallon	8.3 lbs.			
	Per Liter	1.0 kg			
Solids	By Weight	5%			
	By Volume	4%			
Volatile Organic Compounds		<75 g/l (0.63 lbs./gal.)			
Application Parameters		50-100°F (10-38°C) and <85% Relative Humidity			
Practical Coverage at Recommended DFT (assumes 15% material loss) [Square feet per Gallon]		Pre-Cast	Smooth	Brush-Blasted	Exposed Aggregate
			150 sq.ft./gal.	100 sq.ft./gal.	100 sq.ft./gal.
		Stucco, Plaster or EIFS	Smooth	Textured	Rough
			250	150	100
		Brick	Clay	Concrete	Glazed
			200	150	Not recommended
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Recoat	3 hours			
	Foot Traffic	8 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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