OKON W-2™

WATER REPELLENT SEALER FOR POROUS CONCRETE AND MASONRY

DESCRIPTION AND USES

OKON W-2 Water Repellent Sealer **i**s 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 and nonglazed 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 microemulsion, 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, Concrete brick.

PRODUCTS

SKU	Container Size
OK-921	1-Gallon
OK-920	5-Gallon
OK-925	Drum

FEATURES

- Water based Acrylic Micro-Emulsions
- Non-yellowing
- Recoatable
- Paintable *
- Resist high alkalinity
- Resist chloride salts
- Resist blushing

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.

Clean: Clean surface using oil-free, compressed air to remove loose and foreign matter that could interfere with application or performance of coating. pressure washing 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.)

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**.** 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 (1/3 – 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 insure run down of 3 – 5 inches down the wall. Take special care to saturate mortar joints. Donot 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 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.

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 affect darken the color 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, blasted concrete - use OKON PLUGGER. Refer to Technical Data Bulletin for detailed use.

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.

5-YEAR WATER REPELLENCY WARRANTY

Properly specified and applied applications of W-1 may qualify for a 5-Year Warranty. Two coats are generally required to achieve this performance standard. Not all substrates can achieve this standard regardless of the number of coats applied. Request OKON Warranty procedure for details.

WARRANTY

The manufacturer will replace this product if, within 60 days of the date of purchase, it is shown to be defective when used as directed. THE MANUFACTURER'S LIABILITY UNDER ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, IS LIMITED IN DURATION TO 60 DAYS AND IS LIMITED SOLELY TO REPLACEMENT OF THE PRODUCT AND DOES NOT INCLUDE LABOR OR OTHER CONSEQUENTIAL DAMAGES. Some states do not allow limitation on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages. So the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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 Hrs 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%

* 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.

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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		
Weight Solids		10%		
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°F (21ºC) 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 MSDS		

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.