



Decorative protection for porous and textured concrete



TECHNICAL DATA BULLETIN

OKON W-1™

WATER REPELLENT SEALER FOR DENSE CONCRETE AND MASONRY

PRODUCT DESCRIPTION

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 <i>dense</i> surfaces including:			
Pre-cast	Adobe	Granite & Limestone	Plaster
Tilt-up	Brick	Exposed aggregate	Rough Stucco

FEATURES

1. Waterbased Acrylic Micro-Emulsions
2. Non-yellowing
3. Recoatable
4. Paintable
5. Resist high alkalinity
6. Resist chloride salts
7. Resist blushing

TECHNICAL DATA

- Chemistry Acrylic/ Silane-siloxane
- pH 8.5 – 9.5
- Weight Solids 5 %
- Product type Water-base
- VOC 75 g/L
- Specific gravity 1.01
- Breathable YES – ASTM 1653
- Flash point N/A
- Viscosity < 100 cps
- Paintable Yes ASTM D 3359

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 suflamic or dilute muriatic acid. Spot cleaning with acid may cause uneven porosity and blotchy appearance. 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.

Suggested Spread Rate for estimating purposes: (sq. ft. per gallon)			
Pre-cast	Smooth	Brush blasted	Exposed Aggregate
	150	100	100
Stucco, plaster or EIFS	Smooth	Textured	Rough
	250	150	100
Brick	Clay	Concrete	Glazed
	200	150	Not recmn'd
If a second coat is required, estimate that it will cover 50% more surface area than the first coat.			

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 (.33 - .66 gpm) at set a low pressure (500 psi) and a .015-.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.

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.

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 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 W-2 or OKON PLUGGER. Refer to Technical Data Bulletin for detailed use instructions.

APPLICATION PARAMETERS	
Surface Temperature	50° F – 100° F
Relative Humidity	< 85%
Protect from rain	24 hours
Protect from dew	12 hours
DRY TIME	
Dry time to recoat	3 hours or when clear or dry to touch
Dry time for foot traffic	8 hours
Dry time based on 70°F & 50% RH. Lower temperatures and higher humidity will increase dry time. Air circulation will aid drying. Higher surface temperatures will significantly speed drying and extra caution is required to avoid excess material, drips or runs from drying on the surface. Excess material allowed to dry on the surface may turn cloudy if cured at too low or too high of temperature.	

PACKAGING CODES

Code	Package	Wtg.	UPC
OK-911	Gallon	9.0	7 49505 91001 7
OK-910	Five	44.0	7 49505 91055 0
OK-915	Drum	480	7 49505 91005 5

The information contained in this bulletin was the best available at time of publication but may be superseded by revisions. Contact Rust-Oleum to determine if updates are available.

TECHNICAL DATA

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	Excell.
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%
pH		9.0
Spec. Gravity		1.0
VOC		75
Weight per gallon (lbs)		8.3

FIRST AID/SAFETY INSTRUCTIONS:

EYES: Rinse thoroughly for 15 minutes. Get immediate medical attention. **INGESTION:** Call a physician immediately. ONLY induce vomiting at the instruction of a physician.

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.

STORAGE: KEEP FROM FREEZING

WARNING! KEEP OUT OF REACH OF CHILDREN



Manufactured and distributed by:
Rust-Oleum Corporation
 11 E. Hawthorn Pkwy.
 Vernon Hills, IL 60061
 (847) 367-7700
www.okoninc.com www.rustoleum.com