OKON S-20 ™

WATER REPELLENT SEALER FOR DENSE CONCRETE AND MASONRY

DESCRIPTION AND USES

OKON S-20 is a water-base, low VOC, high performance ready-to-use, penetrating silane/siloxane water-repellent designed for dense concrete and masonry surfaces. As it penetrates into the surface it reacts with minerals within the substrate and creates a hydrophobic barrier against water intrusion.

OKON S-20 can be used on horizontal or vertical surfaces. It protects Cast concrete, tilt-up panels, non-glazed brick, cementitious stucco and other comparably dense materials from the damaging effects of water absorption – efflorescence, freeze-thaw damage, etc. Its unique formulation repels water while being highly permeable to water vapor.

OKON S-20 is recommended for *dense* surfaces including: Pre-cast, Adobe, Exposed aggregate, Plaster, Tilt-up, Brick, Mortar joints, Stucco

PRODUCTS

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

FEATURES

- Ready-to-use waterbase
- Breathable (ASTM - D 1653)
- VOC Compliant (all jurisdictions)
- Colorless, Odorless, Non-yellowing
- Non-glossy, will not alter texture or appearance of treated surface
- Paintable (ASTM - D 3359)
- Resist high alkalinity
- Resist chloride salts

PRODUCT APPLICATION

SURFACE PREPARATION

OKON S-20 can be applied to most *dense* concrete surfaces that are unsealed, clean (free of dirt, waxes and oils), dry and sound. New concrete must be cured for 28 days prior to coating. Cracks and joints must be sealed prior to application.

Unsealed: S-20 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 S-20 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

PRODUCT APPLICATION (cont.)

chemical cleaning. Use a degreaser to remove oil or grease stains. Allow washed surfaces to dry three days prior to coating.

Dry: Substrate and surface moisture must be less than 17%. In climates where freezing temperatures have existed prior to application, allow adequate time for surfaces to thaw. In hot weather, lightly dampen surfaces with clean fresh water prior to application to prevent a flash cure of material. Do not apply if ambient air or surface temperatures are below 45º or over 90º F.

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. Parapet walls must be capped and backside sealed with a waterproofing membrane. Protect adjacent and underlying surfaces from over spray and rundown.

COVERAGE

One saturation coat is normally sufficient for vertical, smooth dense concrete or masonry. For textured or horizontal surfaces a second coat may be required. A second coat can only be applied while the first coat is still damp. The listed coverage rates are approximate and for estimating purposes only. The surface texture and style of mortar joints can greatly affect application rates. Always apply material to test area prior to general application to establish spread rate.

APPLICATION

OKON S-20 is ready-to-use and should not be diluted. Avoid application in windy weather. In hot weather, where possible, lightly spray surface with water to cool the surface to prevent flash drying. S-20 is best applied by low-pressure airless spray but can be applied by garden-type sprayer or small areas can be applied by brush or roller. For airless spray use a small to medium size airless pump (1/3 – 2/3 Gallons per minute) set at low pressure - 500 psi, and use a large tip - 0. 035 – 0.050” tip. Hold spray tip 12-18 inches from the surface, start at the bottom of the wall and work up with an overlapping horizontal spray pattern to ensure run down of 6 – 8 inches. 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.

Horizontal Surfaces: OKON S-20 can be used to provide water repellency to horizontal concrete floors or pads. Apply by roller, garden-sprayer or airless. Do not pour product onto horizontal surfaces to spread. Apply sufficient Material so that the surface remains wet for several minutes before material is absorbed. After 5-10 minutes,

PRODUCT APPLICATION (cont.)

backroll remaining pools or puddles with dry-roller to prevent excess material from drying on the surface. Material that is not absorbed should be back rolled or brushed out to avoid build up. A second coat may be applied to maximize protection while the first coat is still damp. Protect shrubbery, plants, and grass, glass, metal and asphalt surfaces during application.

LIMITATIONS

OKON S-20 does not provide protection against hydrostatic water pressure, efflorescence caused by interior moisture sources, or moisture penetration through cracks in mortar, expansion joints or junctures between dissimilar materials. S-20 will not fill large pores, bridge cracks, seal inaccessible areas, or compensate for flawed construction. Do not use on glazed or sealed surfaces. Do not tint. A mock-up should always be performed and approved by property owner. To protect more porous substrates when RILEM tube test standards are required use OKON PLUGGER. Refer to Technical Data Bulletin for detailed use instructions.

CLEAN UP

Clean hands and tools with soapy water. Clean drips, runs and over-spray residue while still wet, using detergent and water. S-20 will not etch common glass but spills and over spray onto glass should be removed with a damp cloth while wet. Dried material may require mechanical abrasion to remove. Clean application and spray equipment with detergent and water immediately following use.

5-YEAR WATER REPELLENCY WARRANTY

Properly specified and applied applications of OKON S-20 may qualify for a 5-Year Warranty (Completion of a project verification form is required to qualify). 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,

PRODUCT APPLICATION (cont.)

and you may also have other rights which vary from state to state.

KEEP FROM FREEZING

WARNING! KEEP OUT OF REACH OF CHILDREN

OKON®

TECHNICAL DATA **OKN-01**

OKON S-20 WATER REPELLENT SEALER FOR DENSE CONCRETE AND MASONRY

PHYSICAL PROPERTIES

		OKON S-20		
Resin Type		Silane / Siloxane		
Color		Colorless		
Solvents		Water		
Weight	**Per Gallon**	8.41 lbs.		
	Per Liter	1.0 kg		
Volatile Organic Compounds		<50 g/l (0.42 lbs./gal.)		
Application Parameters		45°F to 90°F (7°C to 32°C) <85% Relative Humidity		
Practical Coverage R (assume 15% material loss)		Pre-cast/Tilt-up	Smooth	Exposed Aggregate
			80-100 sq. ft/gal.	50-100 sq. ft/gal.
		Stucco, plaster	Smooth	Textured
			100-150 sq. ft. /gal.	80-120 sq. ft. /gal.
		Brick, non-glazed	Clay	Concrete
			100-150 sq. ft. /gal.	80-100 sq. ft. /gal.
Dry Times at 70°F (21ºC) and 50% Relative Humidity	**Recoat**	Wet-on-wet, if required		
	Foot Traffic	8 Hours		
	Vehicular Traffic	24 hours		
Protect From Rain		24 hours		
Protect From Dew		12 hours		
Shelf Life		12 months unopened in protected storage.		
Flash Point		>200ºF (93ºC)		
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.

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