



OKON S-40™

WATER REPELLENT SEALER FOR POROUS CONCRETE AND MASONRY

DESCRIPTION AND USES

OKON S-40 is a water-based, oligomeric siloxane/silane, ready to use, deep penetrating water-repellent. It is a colorless, odorless, non-staining, non-yellowing and non-film forming penetrant used to protect concrete or masonry surfaces without altering the appearance or texture of the treated surface. OKON S-40 is breathable, nonflammable and complies with VOC regulations.

It is designed for vertical surfaces - light weight concrete, normal weight concrete block and mortar joints, porous brick, precast, pre-stressed, poured-in-place, exposed aggregate, and air entrained concrete and horizontal slabs – above grade concrete wearing surfaces.

Applications include Horizontal and vertical surfaces on Concrete, Normal weight concrete block, lightweight concrete, porous brick, mortar joints, exterior walls, sound barriers, sidewalks, ramps, parking decks, bridge decks and Industrial Floors.

PRODUCTS

SKU	Container Size
OK-641	1-Gallon
OK-640	5-Gallon

FEATURES

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

PERFORMANCE CHARACTERISTICS

- Depth of Penetration - $\frac{3}{8}$ " (Substrate dependent)
- Absorption Reduction – 88%
- Reduction in Water Leakage – Brick 100%, Mortar Block >91%
- Accelerated Weathering (1500 hrs.) – No Change

PRODUCT APPLICATION

SURFACE PREPARATION

OKON S-40 can be applied to porous surfaces that are unsealed, clean (free of dirt, waxes and oils), dry and sound. New concrete must be cured for 21 days prior to coating. Cracks and joints must be sealed prior to application. S-40 must be able to penetrate into the surface. Test the openness of the substrate by sprinkling with water. If the surface turns dark with the water S-40 can be applied. Clean exterior surfaces by pressure washing to remove dust, mildew, sand or other foreign matter. Vacuum and damp-mop interior surfaces. Remove efflorescence with sulfamic or dilute muriatic acid. If acid is used, it must be completely neutralized before applying S-40. Rinse the surface thoroughly after chemical cleaning. Use a degreaser to remove oil or grease stains.

Dry Substrate: A dry substrate is required to achieve proper penetration. Allow washed surfaces to dry three days prior to coating. Surfaces should be dry 24 hours prior to application. In climates where freezing temperatures have existed prior to application, allow adequate time for surfaces to thaw. Do not apply if ambient air or surface temperatures are below 45° or over 90° F. Do not apply if rain is expected within 12 hours.

Sound Substrate: Surface of concrete and mortar joints must be hard and firm - not loose or sandy. The surface is unsound 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. Prior to application, joints or cracks must be properly sealed or filled. Parapet walls must be capped and backside sealed with a waterproofing membrane. Protect adjacent and underlying surfaces from over spray and rundown.

APPLICATION

OKON S-40 is ready-to-use and should not be diluted. Agitate before use. Avoid application in windy weather. In hot weather, where possible, lightly spray surface with water to cool the surface to prevent flash drying. S-40 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, reduce pressure to 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. Uneven application may result in blotchy appearance. Water repellency properties will develop 24 hours to 5 days after application.

OKON S-40 WATER REPELLENT SEALER FOR POROUS CONCRETE AND MASONRY**PRODUCT APPLICATION (cont.)**

Horizontal Surfaces: OKON S-40 can be used to provide water repellency to horizontal concrete floors or pads. Apply by roller, garden-sprayer or low-pressure 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 5-10 minutes, back-roll 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.

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 coverage rates listed 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.

LIMITATIONS:

OKON S-40 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-40 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-40 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.

PRODUCT APPLICATION (cont.)**5-YEAR WATER REPELLENCY WARRANTY**

Properly specified and applied applications of OKON S-40 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, and you may also have other rights which vary from state to state.

KEEP FROM FREEZING**WARNING! KEEP OUT OF REACH OF CHILDREN**

**TECHNICAL DATA****OKN-02****OKON S-40 WATER REPELLENT SEALER FOR POROUS CONCRETE AND MASONRY****PHYSICAL PROPERTIES**

		OKON S-40		
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 Rate (assume 15% material loss)		Sq. Ft. / Gallon	Vertical	Horizontal
		1 st Coat	40-60 Sq/Ft	100-150 Sq/Ft
		2 nd Coat	60-100 Sq/Ft	100-150 Sq/Ft Not required on dense surfaces
Dry Times at 70°F (21°C) and 50% Relative Humidity	Recoat	Wet-on-wet, if required		
	Foot Traffic	8 Hours		
	Vehicle Traffic	24 hours		
Protect From Rain		12 hours		
Shelf Life		12 months unopened in protected storage.		
Flash Point		>200°F (93°C)		
Safety Information		For additional information, see MSDS		

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