



**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, mortar joints, porous brick, precast, pre-stressed, poured-in-place, exposed aggregate, and air entrained concrete and horizontal slabs, and above grade concrete wearing surfaces.

It is suitable for use on exterior walls, sound barriers, sidewalks, ramps, parking decks, bridge decks and industrial floors.

MPI #34 Certified\*

**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

**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.

**PRODUCT APPLICATION (cont.)**

**SURFACE PREPARATION (cont.)**

**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.

**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.

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

**PRODUCT APPLICATION (cont.)****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.

**KEEP FROM FREEZING**

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

**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

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

		<b>OKON S-40</b>		
<b>Resin Type</b>		Silane / Siloxane		
<b>Color</b>		Colorless		
<b>Solvents</b>		Water		
<b>Weight</b>	<b>Per Gallon</b>	8.41 lbs.		
	<b>Per Liter</b>	1.0 kg		
<b>Solids</b>	<b>By Weight</b>	9%		
	<b>By Volume</b>	10.5%		
<b>Volatile Organic Compounds</b>		<50 g/l (0.42 lbs./gal.)		
<b>Application Parameters</b>		45°F to 90°F (7°C to 32°C) <85% Relative Humidity		
<b>Practical Coverage Rate (assume 15% material loss) [Square Feet per Gallon]</b>		<b>Coverage</b>	<b>Vertical</b>	<b>Horizontal</b>
		1 <sup>st</sup> Coat	40-60 sq.ft./gal.	100-150 sq.ft./gal.
		2 <sup>nd</sup> Coat	60-100 sq.ft./gal.	100-150 sq.ft./gal.*
<b>Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity</b>	<b>Recoat</b>	Wet-on-wet, if required		
	<b>Foot Traffic</b>	8 Hours		
	<b>Vehicle Traffic</b>	24 hours		
<b>Protect From Rain</b>		12 hours		
<b>Shelf Life</b>		12 months unopened in protected storage.		
<b>Flash Point</b>		>200°F (93°C)		
<b>Safety Information</b>		For additional information, see SDS		

\* A second coat is not required on dense surfaces

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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