

WATERSTOPPER S-40 SILANE WATER REPELLENT FOR CONCRETE & MASONRY

PRODUCT DESCRIPTION: Waterstopper S-40 Silane is a ready to use, penetrating, colorless, non-yellowing, and breathable concrete and masonry water repellent treatment compound. Once applied, Waterstopper S-40 Silane chemically reacts with the substrate and forms long life water repellent groups that cross link into the substrate matrix. Surfaces treated with Waterstopper S-40 Silane are protected against the damaging effects of water intrusion, de-icing chemicals, freeze-thaw exposure, acid rain, airborne impurities and most other atmospheric chemicals without altering the appearance or texture of the treated substrate. Waterstopper S-40 Silane is formulated to protect vertical above grade concrete and masonry surfaces such as precast, tilt up and monolithic concrete, concrete block, stone and brick masonry, as well as protecting horizontal concrete wearing surfaces. Waterstopper S-40 Silane is recommended for exterior use only.

BENEFITS: EXCELLENT WATER REPELLENCY & CHLORIDE REDUCTION...EXCELLENT DEPTH OF PENETRATION...HIGH ALKALI RESISTANCE AND FAST CONVERSION RATE... LOW VOLATILITY

COMPOSITION: Alkylalkoxy based silane in aliphatic solvent carrier.

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Weight per Gallon:	7.31 +/- 0.1 lb./ gallon
Color/odor:	Clear solution with aliphatic solvent type odor
Percent solids (actives) by weight:	40.05% +/- 0.25
Flash Point:	>305° F (151°C)
V.O.C. Content (% Volatiles) per EPA method:	342 g/L (2.85 lbs. /gal.)*
COMBUSTIBLE LIQUID	UN 1256

**Contain less than 400 g/L (3.33 lbs. /gal.) volatile organic compounds. Meets existing VOC (VOM) regulations for Waterproofing Concrete and Masonry Sealers under the EPA's Ozone Transport Committee (OTC) Industrial Maintenance Coatings listings for most states excluding California (CARB, and SCAQMD).

TECHNICAL DATA:

NCHRP 244 Series I test:	Requirement:	Treated Waterstopper S-40 Silane:
% Reduction water absorption:	75%	83.8%
% Reduction chloride ion intrusion:	75%	82.7%
% Water vapor transmission:	100%	111.4%
NCHRP 244 Series IV test:	90%	97.6 % -for both Northern & Southern Climates

Scaling Resistance:	Requirement:	Treated Waterstopper S-40 Silane:
ASTM C-672 - 50 cycles:	-	2.0 - Pass
OPS 1351.08.01- 50 cycles:	-	1.0 - Pass
Freeze Thaw Durability -ASTM C-666:	-	95.3 vs. control = 69.0

ALBERTA DOT -% REDUCTION WATER ABSORPTION:	Requirement:	Treated Waterstopper S-40 Silane:
Before sandblasting:	82.6%	84.7%
After sandblasting:	82.6%	82.8%

DIRECTIONS FOR USE: For best results allow new concrete to cure 28 days before applying Waterstopper S-40 Silane. Waterstopper S-40 Silane can be applied to slightly damp surfaces if necessary; however, dry substrates are preferred for maximum penetration. Do not thin Waterstopper S-40 Silane. Surfaces to be treated must be structural sound, dry, clean and free of all contaminants that will prevent the penetration of Waterstopper S-40 Silane. Repair all cracks, voids or surface defects and install caulking or joint sealant prior to applying Waterstopper S-40 Silane.

DIRECTIONS FOR USE (continued): Waterstopper S-40 Silane should be applied using low pressure airless spray equipment. For small areas, a garden sprayer with neoprene hose may be used. Sprayer tip should be no smaller than .035 and depending upon the spray equipment used, a larger orifice size may be necessary to produce the proper material flow. Start at the top of the wall and work downward using uniform, overlapping horizontal strokes. Fog the surface with a light spray to break the surface tension. Immediately follow with a flood coat before the mist coat dries. Apply sufficient material to cause an 8 to 10 inch run down from the point of contact. To prevent curtaining on white or light colored materials, apply Waterstopper S-40 Silane in several fog coats to the point of saturation with no run down. Apply two coats of Waterstopper S-40 Silane to materials having low density or high permeability such as concrete block. Allow proper drying time between coats, 12 to 24 hours. On horizontal surfaces apply Waterstopper S-40 Silane in a continuous heavy flood coat to the point of saturation. Do not allow material to puddle. Clean equipment with an appropriate V.O.C. compliant solvent immediately after use.

COVERAGE: The following coverage rates are approximate and for estimating purposes only. Specco recommends that a test application is made on the actual surface to be treated to accurately determine coverage rates, effectiveness and influence on surface appearance.

Concrete	150-200 ft ² / gallon	Natural Stone-Porous	60-100 ft ² / gallon
Clay Brick-Porous	60-120 ft ² / gallon	Natural Stone-Dense	50 - 80 ft ² / gallon
Clay Brick-Dense	100-120 ft ² / gallon	Precast Paver Block	150-200 ft ² / gallon
Block	80-100 ft ² / gallon	Stucco	75-100 ft ² / gallon
Cast Stone	75-125 ft ² / gallon	Artificial Stone	50-100 ft ² / gallon

CAUTIONS: Do not apply Waterstopper S-40 Silane to frozen or frost filled surfaces or in temperature below 40° F. Do not apply to overly wet or saturated surfaces or if rain is expected within 24 hours. Protect asphalt, plastic and rubber surfaces. All windows and air intakes should be closed during exterior application to prevent intake of fumes. All food and drink products should be protected from the product application and vapors. When applied to very absorbent substrates and in cooler weather, the vapor of the carrier gravitates to the inside of the structure. There should be no building occupancy prior to the removal of the vapors with a positive ventilation system. People with medical conditions and that are pregnant should not be exposed to vapors or fumes. Do not use compressed air to force the material from the drum.

WARNINGS: Waterstopper S-40 Silane contains petroleum distillates and is classified as a combustible liquid. Keep away from heat, sparks, and open flame. Avoid ingestion, skin and eye contact and inhalation of the spray mist. Provide adequate ventilation during use. Use with OSHA/NIOSH approved eye protection and air (vapor) respirator. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. Read all technical information including label, MSDS and data sheets before use. Make sure that the application is static free. Empty containers may contain explosive vapors that are heavier than air. Keep containers closed. Do not cut or weld on or near empty containers. Keep away from food and drink. Do not take internally. For medical emergencies only, call Chemtrec at 1-800-424-9300. FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. DO NOT DILUTE OR THIN.

H.M.I.S. CODES (Hazardous Materials Identification System): HEALTH = 1, FLAMMABILITY = 2, REACTIVITY = 0, PERSONAL PROTECTION = E

SHIPPING CLASS: ITEM 155250, SUB 2, LTL 65 CONCRETE WATER REPELLENT

PACKAGING: 1, 5 and 55 gallon containers

STORAGE/SHELF LIFE: 40 to 90 F / 1 year properly stored

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product. Revised: 12-05-08