

WATERSTOPPER S-20 SILOXANE WATER REPELLENT FOR CONCRETE & MASONRY

PRODUCT DESCRIPTION: Waterstopper S-20 Siloxane is a ready to use, penetrating, colorless, non-yellowing, and breathable concrete and masonry water repellent treatment compound. Once applied, Waterstopper S-20 Siloxane chemically reacts with the substrate and forms long life water repellent groups that crosslink into a polysiloxane compound. Surfaces treated with Waterstopper S-20 Siloxane 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-20 Siloxane is formulated to protect vertical above grade concrete and masonry surfaces such as precast, shotcrete applications, tilt up and monolithic concrete, concrete block, stone and brick masonry, as well as protecting horizontal concrete wearing surfaces. Waterstopper S-20 Siloxane is for exterior use only.

BENEFITS: V.O.C. COMPLIANT FOR USE IN MOST STATES...EXCELLENT CHLORIDE / SALT RESISTANCE...EXHIBITS VERY HIGH WATER REPELLENCY...LOW EVAPORATION RATE ALLOWS HIGHER PENETRATION INTO CONCRETE AND MASONRY...TREATED CONCRETE WILL BE LESS ABSORBENT AND MORE RESISTANT TO FREEZE-THAW CYCLING DAMAGE...ALLOWS CONCRETE TO REMAIN NATURAL IN APPEARANCE WITH NO SUBSTRATE DARKENING... WORKS INSIDE THE CONCRETE MATRIX LEAVING NO FILMS OR RESINS AT THE SURFACE WHICH CAN CHIP, PEEL, DISCOLOR, OR WEAR.

COMPOSITION: Oligomeric alkylalkoxy siloxane in aliphatic/acetone VOC compliant blended carrier solvent

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Weight per Gallon:	6.76 +/- 0.1 lb./ gallon
Color/odor:	Clear solution with ketone solvent type odor
Percent solids (actives) by weight:	11.5 % +/- 0.25
Flash Point:	43° F (6.1°C)
V.O.C. Content (% Volatiles) per EPA method:	395 g/L (3.29 lbs. /gal.)*

* 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:

Federal Specification SS-W-110C:	Requirement:	Treated Waterstopper S-20 Siloxane	Untreated:
Water Absorption Test:	1% max.	0.2%	8.6%

NCHRP 244 Series II	Requirement:	Treated Waterstopper S-20 Siloxane
% Reduction chloride ion	75%	92%
% Water vapor transmission	100%	102%

DIRECTIONS FOR USE: Allow new concrete to cure approximately 28 days before applying Waterstopper S-20 Siloxane. Do not thin Waterstopper S-20 Siloxane. Surfaces to be treated must be structurally sound, dry, clean and free of all contaminants that will prevent the penetration of Waterstopper S-20 Siloxane. Repair all cracks, voids or surface defects and install caulking or joint sealant prior to applying Waterstopper S-20.

APPLICATION: Specco Waterstopper S-20 Siloxane is best applied on large areas using low pressure airless spray equipment. Apply by airless spray, hand held (pump up spray), short nap (solvent resistant) roller, or lamb's wool applicator. Hand held sprayers should be of solvent resistant design with Viton type fittings, common polyethylene (gardening type) should not be used. Alternative methods by roller or brush can be used where sprayers are not available or overspray is a concern.

APPLICATION (continued): When spraying, the 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 driveway (concrete) or wall (masonry) 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, and apply to the point of saturation. For masonry, 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-20 Siloxane in several fog coats to the point of saturation with no run down. Apply two coats of Waterstopper S-20 Siloxane to materials having low density or high permeability such as concrete block. Allow proper drying time between coats of 2-3 hours. Do not allow material to puddle. Clean equipment with an appropriate VOC compliant solvent (such as Acetone) 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- Bridge Decks / Ramps	100-200 ft ² / gallon	Cast Stone	75-125 ft ² / gallon
Concrete - Smooth	150-250 ft ² / gallon	Natural Stone	50 - 100 ft ² / gallon
Concrete - Block	50-100 ft ² / gallon	Precast Paver Block	150-200 ft ² / gallon
Clay Brick-Porous	60-120 ft ² / gallon	Stucco	75-100 ft ² / gallon
Clay Brick-Dense	100-120 ft ² / gallon	Artificial Stone	50-100 ft ² / gallon

CAUTIONS: Surface appearance obtained on concrete is dependent on both moisture content and density of substrate. Do not apply to wet surfaces or if rain is expected within 24 hours. Applying Waterstopper S-20 Siloxane on damp concrete can result in a mottled or darkened surface with uneven color distribution due to variances in penetration. On dense, "steel troweled" concrete surfaces, Waterstopper S-20 Siloxane may dry slightly un-uniform, exhibiting a darker, mottled appearance depending on absorption capacity of the substrate. On porous "broom finished" concrete surfaces, this condition is not as prevalent. A test application is always recommended before using to verify acceptable appearance and performance on questionable surfaces. Do not apply Waterstopper S-20 Siloxane to frozen or frost filled surfaces or in temperature below 32° F. 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-20 Siloxane contains petroleum distillates and is classified as a flammable 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 = 3, REACTIVITY = 0, PERSONAL PROTECTION = C. **SHIPPING INFORMATION: Description: Concrete and Masonry Water Repellent.**

Shipping Name: Flammable Liquid (contains acetone) Hazard class 3 UN 1090 Packing Group II

PACKAGING: 1, 5 and 55 gallon containers

STORAGE/SHELF LIFE: 40° to 90° F / 2 years* - 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 – 04-06-10