



WATER STOPPER S-20

SILOXANE BASED WATER REPELLENT FOR CONCRETE & MASONRY

PRODUCT DESCRIPTION: *Water Stopper S-20* is a ready to use, penetrating, colorless, non-yellowing, and breathable concrete and masonry siloxane based water repellent treatment compound. Once applied, *Water Stopper S-20* chemically reacts with the substrate and forms long life water repellent groups that crosslink into a polysiloxane compound. Surfaces treated with *Water Stopper S-20* 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. *Water Stopper S-20* 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. *Water Stopper S-20* is for exterior use only.

BENEFITS:

- V.O.C. compliant
- Excellent chloride / salt resistance
- Exhibits very high water repellency
- Low evaporation rate allows higher penetration
- Treated substrate is less absorbent and more resistant to freeze-thaw cycling damage
- Will not darken concrete leaving a more natural appearance
- Works inside the concrete matrix leaving no film or resins at surface that can chip, peel, discolor, or wear

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

LEED CREDIT CONSIDERATIONS: Materials and Resources: **MR Credits 5.2:** Regional materials- Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, Illinois 60901. (100% Content- Harvested within 500 miles.)

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:	10° F (-12 °C)
V.O.C. Content (% Volatiles) per EPA method:	245 g/L (2.04 lbs. /gal.)*

SPECIFICATIONS/COMPLIANCES: Contains less than 250 g/L (2.08 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 with Water Stopper S-20:	Untreated:
Water Absorption Test:	1% max.	0.2%	8.6%

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

DIRECTIONS FOR USE: Allow new concrete to cure approximately 28 days before applying *Water Stopper S-20* Surfaces to be treated must be structurally sound, dry, clean and free of all contaminants that will prevent the penetration of *Water Stopper S-20*. Repair all cracks, voids or surface defects and install caulking or joint sealant prior to applying *Water Stopper S-20*.

APPLICATION: *Water Stopper S-20* 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 acetone resistant design, 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. 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.



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APPLICATION (Continued): 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 **Water Stopper S-20** in several fog coats to the point of saturation with no run down. Apply two coats of **Water Stopper S-20** to materials having low density or high permeability. 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: **Water Stopper S-20** is designed for a one coat application on all substrates listed below. The only exception to a one coat application procedure is for materials having low density or high permeability such as concrete block, in which case a second application may be necessary depending on absorbency. 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*	175-225 ft ² / gallon	Natural or Cast Stone	75-125 ft ² / gallon
Concrete - Block	50-100 ft ² / gallon	Precast Paver Block	150-200 ft ² / gallon
Clay Brick	60-120 ft ² / gallon	Stucco	75-100 ft ² / gallon
		Artificial Stone	50-100 ft ² / gallon

*Approved by Illinois Dept. of Transportation for Concrete Sealer at 225 ft²/gallon (5.5 m²/l)

CAUTIONS: Applications to substrates on hills or inclines should only be made if a medium to coarse broomed finish texture is present to ensure adequate foot traction before the **Water Stopper S-20** has been applied. **Water Stopper S-20** is not recommended for application to smooth troweled concrete surfaces on steep inclines or hills which can contribute to lower foot traction when wet. Do not thin **Water Stopper S-20**. 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 **Water Stopper S-20** 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, **Water Stopper S-20** typically dries in 20-30 minutes at average 70°F (21.1°C) conditions but can vary depending on temperature, wind, and amount of sun exposure. Do not apply **Water Stopper S-20** 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 should not be exposed to vapors or fumes. Do not use compressed air to force the material from the drum.

GHS HAZARD RATINGS: DANGER :



Irritant: Respiratory Tract Irritation.



Health Hazard: Reproductive Toxicity



Health Hazard: Flammable Liquid

FIRST AID: Refer to product S.D.S. (Safety Data Sheet) for complete health and safety information before using this product. FOR MEDICAL EMERGENCIES ONLY –CALL INFOTRAC AT 800-535-5053.

WARNINGS & SAFETY INFORMATION: CONTAINS FLAMMABLE LIQUID AND VAPORS! USE ONLY IN WELL-VENTILATED AREAS. Store and apply away from heat, sparks, open flames, water heaters, or any related sources of ignition. Empty containers may contain explosive vapors that are heavier than air. Keep containers closed. Do not cut or weld on or near empty containers. Under all circumstances, avoid the introduction of compressed air into the container. Make sure that the product application is static free. Avoid breathing vapors. Wear protective clothing and safety glasses during application. Use with adequate ventilation. Use with OSHA/NIOSH approved eye protection and air (vapor) respirator. This product may cause damage to the liver or kidneys though prolonged or repeated exposure to the skin. Avoid ingestion, skin and eye contact and inhalation of the spray mist. Keep away from food and drink. Wash hands thoroughly after use and before eating. Do not take internally. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES (Hazardous Materials Identification System): HEALTH = 1, FLAMMABILITY = 3, REACTIVITY = 0, PERS. PROT = G.

SHIPPING NAME: Mixture: Acetone, CAS #67-64-1, Alkoxysiloxane Mixture CAS# Proprietary / Regulated by D.O.T.

SHIPPING CLASS: UN 1993, FLAMMABLE LIQUIDS N.O.S. (ACETONE, NAPHTHA SOLVENT), HC 3, PGII
ITEM 44500, SUB 2, FREIGHT CLASS 92.5 – CONCRETE & MASONRY WATER REPELLENT

PACKAGING: 1, 5 & 55 gallon containers



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STORAGE/SHELF LIFE: 40°to 90° F / 3 years- properly stored

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Revised: 09-13-19



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