



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

SPALLGUARD WB 50%

CONCENTRATED SILOXANE WATER REPELLENT
FOR CONCRETE AND MASONRY



P R O D U C T D A T A

DESCRIPTION

SpallGuard WB 50% is a penetrating, chemically reactive oligomeric alkylalkoxy siloxane moisture and water repellent for concrete and masonry. SpallGuard WB 50% contains a special beading agent to enhance water resistance and a catalyst to ensure that the optimum chemical reaction necessary for water repellency occurs.

USES

- Horizontal or vertical, exterior cured concrete and masonry
- Residential, commercial, industrial and municipal applications
- All types of concrete flatwork, parking lots and structures, driveways, plazas, patios and walkways
- Median barriers, bridge decks and piers, ramps, pavements
- Marine structures, vehicular repair and wash down facilities, loading docks

ADVANTAGES

- Prevents chloride ion penetration from deicing chemicals, acid precipitation or marine environments
- Eliminates spalling of new concrete surfaces due to freeze/thaw cycling
- Penetrates deeply and chemically reacts with concrete and masonry components for long lasting protection
- Seals pores and capillaries of substrate preventing liquid absorption while allowing excellent vapor transmission
- Protects reinforcing steel from corrosion caused by water or airborne salts
- Does not alter the appearance or texture of substrate, suitable for architectural and light colored surfaces
- Economical concentrate for reduced shipping and storage costs

TECHNICAL DATA

V.O.C Content <200 gm/L

- Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59

SpallGuard WB 50% has been tested for the following performance standards:

Test	Control (% Reduction)	SpallGuard WB 50% (% Reduction)
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Weight Gain NCHRP 244	0	88%
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Chloride Ion Content NCHRP 244		
Northern Exposure	0	94%
Southern Exposure	0	98.9%

Scaling Resistance ASTM C-672	—	Passes
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Appearance: Clear

Drying Time:	@ 70°F./21°C.	24 hours
	@ 50°F./10°C.	48 hours

Solids Concentrate: 50%

Dilution Rates of Concentrate by Volume:

Concentrate	Water	%Solids
1 volume	7 volumes	6%
1 volume	4 volumes	10%
1 volume	2.5 volumes	14%
1 volume	2.25 volumes	15%
1 volume	1.5 volumes	20%

Specific Gravity: 0.78-0.79 @ 25°C

ESTIMATING GUIDE

Coverage is dependent upon surface texture and porosity.

	Ft. ² /gal	M ² /L
Brick	100-150	2.5-3.7
Cement Stucco	100-150	2.5-3.7
Concrete	100-150	2.5-3.7
Exposed Aggregate	100-150	2.5-3.7
Precast	125-150	3.0-3.7



ChemMasters

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PACKAGING

SpallGuard WB 50% and SpallGuard WB 50% Concentrate are packaged in 5 U.S. gallon/18.9 liter metal pails, shipped 36 per pallet shrink wrapped and 55 U.S. gallon/208 liter drums, shipped 4 per pallet.

DIRECTIONS

SURFACE PREPARATION: Substrates to be sealed must be a minimum of twenty-eight days old and/or fully cured. Surface temperature must be a minimum of 45°F./7°C and rising with an ambient temperature of 50°F./10°C. Do not apply to frozen or frosted surfaces.

Surface must be clean and free from dirt, dust, laitance, oil, grease, paints, curing or sealing compounds, tilt up bond breakers or other contaminants which would prevent proper penetration.

Extremely dense surfaces such as burnish trowelled floors or hard fired masonry units may be given a light acid wash to promote adequate penetration.

Protect vegetation and any metal or glass adjoining substrate from overspray. If spills or overspray occur, wipe hard surfaces immediately with a cloth and mineral spirits. Thoroughly rinse vegetation with water.

REPAIRS: All cracks and deteriorated surfaces should be repaired prior to application of SpallGuard WB 50%. Joints and channels should be taped or filled to prevent later adhesion problems. Consult ChemMasters technical service staff for product recommendations.

MIXING: SpallGuard WB 50% Concentrate is diluted at varying volume ratios to meet individual specification requirements and levels of protection. Recommended mixing ratios are found in **Technical Data** section of this sheet.

Pour measured volume of water into clean, large mixing container. Add measured volume of concentrate to water. Blend well using mechanical mixer and paddle or jiffiler type blade. Use a slow speed and mix 3-4 minutes.

APPLICATION: Apply SpallGuard WB 50% with a low pressure, solvent resistant, airless sprayer generating 15 psi/.1 MPa and equipped with a fan nozzle or use a roller. Follow recommended application rates listed above.

On vertical surfaces, allow a 6 in./15 cm minimum run down, not to exceed 12 in./30 cm. Excessive rundown or over application can cause discoloration of the substrate.

Horizontal surfaces may be opened to traffic as soon as substrate is dry, usually 1 hour at 72°F./22°C. with 50% R.H.

CLEANUP

Clean tools and equipment used to apply SpallGuard WB 50% with Polyseal solvent, xylene or mineral spirits before material dries.

When using SpallGuard WB 50% Concentrate, clean equipment with warm water and detergent.

STORAGE

Store mixed SpallGuard WB 50% in tightly closed containers in warm, dry area. SpallGuard Plus Concentrate must be stored at temperatures between 50°-90°F./10°-32°C. Do not allow concentrate to freeze. Shelf life of properly stored material is one year from date of manufacture.

LIMITATIONS

- Do not apply when surface temperature is below 45°F./7°C. or ambient temperature is below 50°F./10°C. or above 100°F./38°C.
- Do not apply to wet or damp surfaces or if rain is expected within 4 hours of application.
- If joints or channels are to be filled at a later date, tape or mask prior to application to prevent adhesion problems.
- SpallGuard WB 50% is a penetrating sealer designed to reduce the intrusion of water and salts. It is not a waterproofing membrane and thus cannot be expected to bridge cracks or joints in the concrete.
- All label precautions and the MSDS must be fully understood before using this product.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT

We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.