



# TECHNICAL DATA SHEET

## CHEMSTOP® WB Regular CHEMSTOP® WB Heavy Duty

### Water Based, Silane/Siloxane Penetrating Water Repellents

07190  
WATER REPELLENTS  
THERMAL AND MOISTURE PROTECTION

TAMMS INDUSTRIES  
JANUARY 2001 (Replaces 1/00)

- DESCRIPTION:** CHEMSTOP WB Regular and HD are water based, oligomeric siloxane/ silane, ready to use deep penetrating water repellents. CHEMSTOP WB Regular and HD are colorless when dry, nonstaining, nonyellowing, and nonfilm sealers used for protecting concrete and masonry surfaces without altering the appearance or the texture of the treated surface. CHEMSTOP WB products are breathable, non flammable and comply with current federal AIM VOC regulations.
- USES:** CHEMSTOP WB Regular and HD repellents are used above grade, on vertical surfaces to minimize water penetration, reduce efflorescence, and aid in minimizing spalling due to freeze-thaw cycles. They also protect against ultraviolet degradation, airborne dirt, smog, industrial fumes, acid rain, and most other atmospheric chemicals.
  - CHEMSTOP WB Regular is formulated for use on dense surfaces such as precast, prestressed, exposed aggregate, poured-in-place, and air entrained concrete.
  - CHEMSTOP WB HD is formulated for use on porous materials such as light weight concrete, concrete, brick and normal weight block, sandstone, and other masonry materials that readily absorb moisture.
- COMPLIANCE:** CHEMSTOP WB HD meets requirements of ASTM E514-90 and SS W110C.
- COMPOSITION:** CHEMSTOP WB Regular and HD are proprietary aqueous milky white emulsions of siloxane/ silane oligomers.
- SURFACE PREPARATION:** Cure new concrete 28 days before application. Surface must be structurally sound, clean, dry, free of dust, dirt, paint, efflorescence, laitance, and other contaminants that will prevent the proper penetration of CHEMSTOP WB. Prior to application, joints or cracks must be properly sealed or filled. If acid is used for cleaning, neutralize completely before CHEMSTOP WB application. A dry substrate allows better penetration of the sealer.
- APPLICATION TECHNIQUES:** Low pressure airless spray equipment is the preferred method of application, although for smaller areas, application with brush or rollers may also be acceptable. Application should be from the bottom up to ensure uniform product distribution. Apply a saturation coat with a 6-8" controlled run-down. For dense surfaces, one saturation coat of CHEMSTOP WB Regular is normally required. For porous surfaces two or more saturation coats of CHEMSTOP WB HD may be required, applied using a "wet on wet" technique. Apply a test patch to evaluate surface appearance and effectiveness of the coverage rate.
- CAUTIONS:** Do not dilute the product. Temperature of air and surface must be at least 45°F and rising. Application at temperatures above 90°F is not recommended. Do not apply if rain is eminent within 12 hours of application. Water repellency properties will develop 24 hours to 5 days after application. CHEMSTOP WB is not intended to seal cracks or withstand hydrostatic pressure. Uneven application may result in blotchy appearance of the surface. Do not apply a "fog" coat.
- COVERAGE:** The following coverage rates are approximate and for estimating purposes only. Make test applications on actual surfaces to determine more accurately the coverage rates and effectiveness of water repellent. When two coats are required, apply the second coat on the still wet CHEMSTOP by following the "wet on wet" technique.

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Material Properties @ 75°F, 50% RH		
	Regular	Heavy Duty
Weight/gallon, lbs/gal	8.35	8.4
Viscosity cps	50	50
Depth of Penetration (substrate dependent)	3/8"	3/8"
Reduction in water leakage (ASTM E514-90)		
Brick	—	100%
Mortar Block	—	91%
Reduction in water absorption (SSW110)	90.5%	92.3%
Flash point (°F)	> 200	> 200
Accelerated weathering		
1500 hours	No change	No change
Abrasion Resistance	Excellent	Excellent
Dirt Pick-up	None	None
VOC	25 gms/l	50 gms/l
Values presented are typical and are not necessarily referenced to create specifications.		

#### APPROXIMATE COVERAGE

	Surface	Fog	1st (sq. ft./gal.)	2nd
Regular	Dense	As recommended	80-150	—
Heavy Duty	Porous	As recommended	40-60	60-100

9. **CLEAN-UP INSTRUCTIONS:** Clean drips, runs, and overspray residue while still wet, using detergent and water. Chemstop WB will not etch common glass and spills and overspray onto glass can be easily removed with a damp cloth. Dried material may require mechanical abrasion for removal. Clean application and spray equipment with detergent and water immediately following use.

10. **ENVIRONMENTAL/SAFETY PRECAUTIONS:**  
**Industrial Use Only.** CHEMSTOP WB products are non flammable and non hazardous. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with water and call a physician as needed. **DO NOT RUB EYES!** Avoid breathing vapors or mist. Wash hands thoroughly after handling or before smoking or eating. Do not take internally. **KEEP AWAY FROM CHILDREN AND ANIMALS.** Protect shrubbery, plants, grass, glass, metal and asphalt surfaces during application. Consult Material Safety Data Sheet for complete product information. EMERGENCY RESPONSE PHONE NUMBER: (800) 862-2667 TAMMS OR (800) 424-9300 CHEMTREC.

11. **PACKAGING:** One gallon, 5 gallon, and 55 gallon (3.78, 18.93 and 208.2l) DOT approved containers.  
**Storage:** 40 - 90°F (4.5 - 32.2°C) PROTECT FROM FREEZING. CHEMSTOP WB may exhibit minor settling upon storage. Agitation prior to use may be necessary.  
**Shelf Life:** 6 months, unopened, in protected storage. Product returns with expired shelf life will not be accepted.

11. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES  
3835 State Route 72, Kirkland, IL 60146  
800-862-2667 FAX: 815-522-2323  
www.tamms.com

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