



# TECHNICAL DATA SHEET

## CHEMSTOP® WB Regular CHEMSTOP® WB Heavy Duty

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

07190  
WATER REPELLENTS  
THERMAL AND MOISTURE PROTECTION

TAMMS INDUSTRIES  
NOVEMBER 2003 (Replaces 1/01)

1. **DESCRIPTION:** CHEMSTOP WB is a water based, siloxane/silane water repellent. CHEMSTOP WB Regular is formulated for use on dense surfaces, such as pre-cast or poured-in-place concrete. CHEMSTOP WB Heavy Duty is used on porous surfaces such as light weight concrete, concrete block and mortar joints.

#### FEATURES AND BENEFITS

- *Waterproofs concrete and masonry*
- *Water-based, VOC Compliant*
- *Colorless*
- *Odorless*
- *Non-staining, Non-yellowing*
- *Reduce efflorescence and spalling*
- *Breathable*
- *Complies with SS W110C and ASTM E514*
- *Will not alter texture or appearance of treated surface*

#### APPLICATIONS

Horizontal and vertical surfaces such as

- *Concrete*
- *Concrete block*
- *Lightweight concrete*
- *Brick*
- *Mortar joints*

2. **COMPOSITION AND MATERIAL:** CHEMSTOP WB Regular and Heavy Duty are proprietary, aqueous emulsions of siloxane/silane oligomers.

3. **SURFACE PREPARATION:** Cure new concrete 28 days before application. Surface should be structurally sound, clean, dry, free of dust, dirt, paint, efflorescence, laitance and other contaminants that will prevent the proper penetration of CHEMSTOP WB. A dry substrate is required for proper penetration of the sealer. Prior to application, joints or cracks must be properly sealed or filled. If acid is used for cleaning, neutralize completely before application of CHEMSTOP WB. A dry substrate allows better penetration of the sealer.

4. **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 rundown. For dense surfaces, one saturation coat of CHEMSTOP WB Regular is normally required. For porous surfaces two or more saturation coats of CHEMSTOP WB Heavy Duty may be required, applied using a "wet on wet" technique. Apply a test patch to evaluate surface appearance and effectiveness of the coverage rate.

5. **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.

#### Material Properties @ 75° F, 50% RH

	<u>Regular</u>	<u>Heavy Duty</u>
Weight/gallon, lbs.	8.35	8.40
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/liter	50 gms/liter

Values presented are typical and are not necessarily referenced to create specifications.

#### APPROXIMATE COVERAGE

	<u>Surface</u>	<u>1st</u>	<u>2nd</u>
		(sq. ft./gal.)	
Regular	dense	80-150	NA
Heavy Duty	porous	40-60	60-100

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6. **CAUTIONS:** Do not dilute. 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 expected 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 a blotchy appearance of the surface. Do not apply a “fog” coat.

7. **CLEAN-UP INSTRUCTIONS:** Clean drips, runs, and overspray residue while still wet, using detergent and water. Chemstop WB will not etch common glass; 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.

8. **ENVIRONMENTAL AND 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, and 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.

9. **PACKAGING:** One gallon, 5 gallon, and 55 gallon (3.78, 18.93 and 208.2l) DOT approved containers. **Storage:** 40°F to 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.

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

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

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