



# TECHNICAL DATA SHEET

## BARACADE® WB 244

### Water Based, Penetrating Water Repellent for Horizontal Surfaces

07190  
WATER REPELLENTS  
THERMAL AND MOISTURE PROTECTION

TAMMS INDUSTRIES  
JANUARY 2001 (Replaces 1/00)

- DESCRIPTION:** BARACADE WB 244 is a water based, oligomeric siloxane/silane, ready to use, deep penetrating water repellent. Water repellency is achieved via an impregnation of the substrate. BARACADE WB 244 is a colorless, odorless, non-staining, non-yellowing and non-film forming penetrant used to protect concrete surfaces without altering the appearance or texture of the treated surface. BARACADE WB 244 is breathable, nonflammable and complies with federal AIM VOC regulations. BARACADE WB 244 meets the requirements of NCHRP Report 244.
- USES:** BARACADE WB 244 is formulated to protect horizontal, above grade concrete wearing surfaces including precast, prestressed, poured-in-place, exposed aggregate, lightweight and air entrained concrete. Applications include sidewalks, ramps, parking decks, bridge decks and industrial floors.
- COMPOSITION AND MATERIAL:** BARACADE WB 244 is a complete solution of a special aqueous blend of siloxane/silane oligomers. This mix produces a stable, easily applied, water repellent, alkali resistant compound.
- COMPLIANCE:** BARACADE WB 244 meets NCHRP 244, and SS W110C specifications. VOC level is 50 grams/liter.
- SURFACE PREPARATION:** Cure new concrete 21 days before application. Surface must be clean, dry and structurally sound. The substrate must also be free of all curing compounds, form release agents and any other contaminants which may prevent the proper penetration of BARACADE WB 244. Prior to application, joints or cracks in movement must be properly sealed with an elastomeric joint sealant. Non-moving cracks or voids wider than 1/64 inch must be filled with a suitable material such as DURAL 340 or TAMMSPATCH. Surfaces must be dry for a minimum of 24 hours prior to application. Mask all adjacent surfaces including grass, plants, shrubs and asphalt to protect from drips or over spray. For surfaces that have had prior coatings or surface treatments, contact Tamms Technical Service at 800-862-2667 prior to application.
- MIXING INSTRUCTIONS:** BARACADE WB 244 does not normally require mixing.
- APPLICATION TECHNIQUES:** For best results, BARACADE WB 244 should be applied using airless spray equipment. A garden sprayer may be used for smaller projects only when an airless sprayer is not available. To produce the proper material flow, reduce air pressure on pumping equipment and use spray tips with orifice sizes no smaller than 0.035 inches. Larger tips may be required with some spray equipment to get desired material flow. Flood the surface with BARACADE WB 244 using a low pressure sprayer. A roller or broom may also be used. Distribute material evenly. Do not allow the material to puddle.
- CAUTIONS:** Do not dilute. Temperature of air and surface must be at least 40 degrees and rising. Do not apply if rain is expected within 12 hours. BARACADE WB 244 can be applied to pH neutral surfaces, however longer cure times may be required to develop full repellency.
- COVERAGE:** Because of variations in surface density, the following coverage rates are approximate and are intended for estimating purposes only. Use test applications on actual surfaces to accurately determine coverage rates. Extremely porous surfaces may require 2 coats of BARACADE WB 244. When two coats are required, apply the second coat on the still wet BARACADE WB 244 by following a "wet on wet" technique.

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Material Properties @ 75° F.	
Flash Point	> 200° F
Weight per gallon, lbs.	8.4
V.O.C., ASTM 3960-81, gms/liter	50
Viscosity, cps	50
Depth of Penetration (substrate dependent)	3/8"
Absorption Reduction, %	
Federal Specification SS-W-110C, %	88
NCHRP Report No. 244	
Reduction in Chloride Ion Content, %	
1 day	80
5 days	82
21 days	84
Average	82
Min. specification requirement	75
Reduction in Weight Gain, %	
1 day	79
5 days	81
21 days	85

#### APPROXIMATE COVERAGE

Surface	1st	2nd
Dense	100-150	—
Porous	100-150	100-150

10. **CLEAN-UP INSTRUCTIONS:** Clean drips, runs, and overspray residue while still wet, using detergent and water. Dried material may require mechanical abrasion for removal. Clean application and spray equipment with detergent and water immediately following use.
11. **ENVIRONMENTAL/SAFETY PRECAUTIONS:**  
**Industrial Use Only.** BARACADE WB 244 is 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.
12. **PACKAGING:** One gallon, 5 gallon, and 55 gallon (3.78, 18.93 and 208.21) DOT approved containers.  
**Storage:** 40 - 90°F (4.5 - 32.2 C) PROTECT FROM FREEZING. BARACADE WB 244 may exhibit minor settling upon storage. Agitation prior to use may be necessary.  
**Shelf Life:** 1 year unopened, in protected storage. Product returns with expired shelf life will not be accepted.
13. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

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