



TECHNICAL DATA SHEET

CLEARSEAL® WB 150, WB STD, WB 300 Water Based Concrete Cure and Seal

03390

CONCRETE CURING/SEALING
CONCRETE

TAMMS INDUSTRIES
APRIL 2002 (Replaces 3/02)

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1. **DESCRIPTION:** CLEARSEAL WB is a water based, modified acrylic curing, sealing and hardening compound. It is one component, VOC compliant formulation which provides a transparent protective film over new or existing concrete. When used as a curing compound, CLEARSEAL WB promotes proper hydration by reducing moisture loss from the concrete. As a sealer CLEARSEAL WB reduces dusting, provides a glossy finish, and a surface which is easy to maintain. CLEARSEAL WB is available in three formulations, each designed to meet specific requirements:

- CLEARSEAL WB 150 is a low viscosity, penetrating cure, sealer, and hardener.
- CLEARSEAL WB STD is a higher solids, penetrating cure, sealer, and hardener formulated for extended wear.
- CLEARSEAL WB 300 has the highest solids content and is formulated to provide a high surface gloss.

2. **USES:** CLEARSEAL WB is used on horizontal concrete and masonry surfaces. Typical uses include driveways, patios, garages, warehouses, and commercial buildings. Its low odor makes it ideal for indoor applications in offices, hospitals and schools. It offers outstanding resistance to dirt and attack by air pollutants.

| | Material Properties at 75°F. 50% RH | | |
|---|-------------------------------------|---------------------------|--------------------------|
| | CLEARSEAL | | |
| | WB 150 | WB STD | WB 300 |
| Viscosity (cps) | 5-15 | 25-50 | 40-100 |
| Initial Dry Time | 1 hour | 1 hour | 1 hour |
| Recoat Time (hrs) | 2-4 | 2-4 | 2-4 |
| Abrasion Resistance CS-17, Wheel 1000 gms/1000 cycles | | 0.0132 gms weight loss | 0.012 gms weight loss |
| Gloss (1-2 Coats) | Low Sheen | Med. Sheen | Glossy |
| Compliance: Meets National AIM VOC Regulations, ASTM C309, Type 1, Class A & B, WB 300 meets ASTM C1315 Type I, AASHTO M148 Type I. Meets USDA requirements for incidental food contact. | | | |

3. **COLORS:** CLEARSEAL WB is available in transparent formulations.

4. **SURFACE PREPARATION: Existing Concrete:** Surface must be structurally sound, clean, free of dust, dirt, laitance, efflorescence, curing compound, paint,

oil, grease and other contaminants. Prior to application, surface defects, voids, cracks and joints should be properly treated and repaired. Concrete may be damp, but must be free of standing water. If acid has been used to clean the surface, neutralize the surface prior to using CLEARSEAL WB. Always test surface pH to insure all acid has been neutralized prior to application. **Freshly Placed Concrete:** Horizontal surface must be finished and show no surface "sheen" from the moisture. The surface must be able to withstand walking workmen.

5. **MIXING INSTRUCTIONS:** CLEARSEAL WB normally requires no mixing. If required, use slow speed mixing without aeration.

6. **APPLICATION TECHNIQUES:** Apply CLEARSEAL WB in a uniform, continuous film by sprayer, short napped roller, brush, or push broom. **Freshly Placed Concrete:** Apply a full, even coat of CLEARSEAL WB ensuring complete and uniform coverage of the surface. Use an applicator or roller to pick up puddles or excess material from the surface. A second coat may be applied depending on desired appearance. If the delay between the first and second coat results in contamination of the surface, the surface must be thoroughly cleaned before application of the second coat. **Existing Concrete:** Apply a full, even coat of CLEARSEAL WB using a sprayer, roller, brush, or broom. A second coat may be applied as soon as the first coat has dried (2-4 hours at 75°F). The surface porosity and the amount of surface sheen desired determines the selection of material for the second coat. The coated concrete can usually be opened to foot traffic in 8-12 hours, with maximum surface hardness developed within 7-10 days. A light maintenance coat is recommended every 1-2 years depending on usage.

7. **COVERAGE:** The following coverage rates are approximate and for estimating purposes only. Make test applications on actual surfaces to determine exact coverage rates and appearance. Additional coats can be used to alter appearance or gloss.

| APPLICATION | CLEARSEAL WB (1st Coat) Sq. Ft./Gal. | | |
|--------------------------------|--|---------|---------|
| | 150 | STD. | 300 |
| CURE/SEAL NEW CONCRETE | 150-200 | 200-300 | 300-400 |
| SEAL/DUSTPROOF OLD CONCRETE | 200-250 | 200-300 | 300-400 |

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8. **CLEAN-UP:** Clean up tools and equipment with water or a blend of water/butyl cellosolve. Dried sealer is very difficult to remove.
9. **CAUTIONS:** Before applying the sealer to the entire surface, test small area to verify sealers appearance and penetration ability. Exceeding recommended coverage rates may result in a “blotchy” appearance. Do not use on glazed, very dense surfaces or over ceramics. Application over wet surfaces and applications which result in excess material on the concrete surface may result in an uneven, “splotchy” appearance after cure. High humidity conditions and very hot/windy days will adversely affect drying and performance of the sealer. Do not apply if rain is likely within 8 - 12 hours after application. The sealer is not intended to seal floors exposed to underground water. Do not apply CLEARSEAL WB to frost filled or frozen surfaces. The sealer will darken the surface and may highlight surface imperfections. Store between 50°F and 90°F. Do not allow to freeze. Use adequate ventilation during application and cure. Do not apply below 45°F. **Do not dilute, as this may result in a cloudy film.**
10. **PACKAGING:** CLEARSEAL WB is available in 1 gal, 5 gal and 55 containers.
Storage: 50 - 90°F. Protect from freezing.
Shelf-Life: 1 year, in protected storage.
11. **ENVIRONMENTAL & SAFETY: FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN AND ANIMALS.** Avoid breathing vapor or mist, wear eye protection and gloves, use with adequate ventilation. In case of eye contact, flood eyes with copious amounts of water. See physician immediately. If ingested, call physician. Protect shrubbery, plants and grass during application. Read product Material Safety Data Sheet before using. **EMERGENCY RESPONSE: PHONE (800) 862-2667 OR CHEMTREC AT (800) 424-9300.**
12. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

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