



High Performance Moisture Mitigation

BondTite 1503

Bonding Enhancer & Moisture Proof Coating Technical Data Bulletin

PRODUCT DESCRIPTION

BondTite 1503 Bond Enhancer & Moisture Proof Coating is a unique three-component, Water-Reducible coating. It can be applied to concrete containing Barrier-1 High Performance Concrete Admixture or as the final coat of Barrier-1 Topical System. BondTite 1503 is applied to new concrete within 12 hours of placement, or as the final coating for the Barrier-1 Topical System. Coatings, membranes and underlayments and can be applied twelve hours after application of BondTite 1503. This is accomplished by superior adhesion to the concrete slab.

APPLICATION DATA SUMMARY

See Application Instructions for complete information on surface preparation, equipment, environmental conditions, application procedures, and safety precautions. For conditions outside the specifications or limitations described, contact Barrier-1 Inc. for details.

SURFACE PREPARATION

Coating performance is directly related to the quality and degree of surface preparation. Prior to overcoating, all surfaces must be clean, and free of all contaminants. For more specific information, consult the surface preparation section contained in the Application instructions and from your Barrier-1 Representative.

SAFETY PRECAUTIONS

Read the Material Safety Data sheet carefully before use. Safety precautions in the MSDS should be carefully followed during storage, handling and use. Improper use and handling

can be hazardous to health and cause fire or explosion.

PHYSICAL DATA

Finish	Matte
Color	Clear
Components	Three
Curing Mechanism	Chemical reaction
Volume Solids	22.5% (Mixed Kit)
Dry Film Thickness	5 mils (minimum)
Total Coats	1 or more
Theoretical Coverage (Depends on Porosity)	500 sf per Gallon
VOC	0 (Zero)
Temperature limits	200°F (100°C)
Adhesion (on Concrete)	> 350 psi
Flashpoint (SETA)	N/A

APPLICATION DATA

Substrate: New Concrete (8-12 Hrs.) Containing Barrier-1 High Performance Concrete Admixture
or
As the Final Coat to Existing Concrete with Barrier-1 Topical System Applied

Surface Preparation	
Steel	Not Recommended
Concrete (Old)	ICRI #5 Profile
Concrete (New)	Broom Finish, Clean

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This product is made exclusively for Barrier-1 by:

Wolverine Coatings Corporation • Voice: 864.342.9292
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Application Method: Airless, Backpack Sprayer, Squeegee, Roller or Brush; **Must be Backrolled with ¼” Nap Roller During The Application.**

Gel Time >60 minutes (125g @77°F)

Induction Period None

Mix Ratios: 0.4 Parts “A” to 0.5 Parts “B” to 2.0 Parts “C” (Water) by Volume

Environmental conditions

Temperature Range	50-120°F
Max Relative Humidity	NA
Surface Temperature	50-120°F

Curing time (Depends on Temperature & Humidity)

	50°F	70°F	90°
Tack Free	NT	2 hr	NT
Overcoat (Old Concrete) Through	NT	6 hr	NT
Overcoat (Green Concrete)	NT	12 hr	NT
	NT	>17 hr*	NT

* Extra Preparation may be required for extended recoat times (>24 hours). Consult Wolverine Coatings Corporation for recommendations based on specific products.

Max Chemical resistance 4 – 7 days

Thinner Water

Equipment Cleaner: Water followed by MEK

MIXING:

BondTite 1503 is packaged in pre-measured containers consisting of Resin Part A and Hardener Part B which must be mixed together before use. The mixing of this product is critical and should be carefully followed. Use a mechanical mixer (such as a drill) with a proper mixing attachment (jiffy mixer). Begin by mixing Part B (Larger Container) for 30 seconds. Add Part A (Small Container) to Part B under agitation (while you are mixing). Mix the combined parts for 3 minutes. This 3 minute

mixing time is critical as the 2 components must react for 3 minutes prior to the addition of Part C (water). This mixture will turn a milky white with a slight green tint. After the 3 minute mixing cycle add 25% (1/4) of Part C (water) while the mixer continues to mix, the water must be at least 50°F. After the first 25% addition of water, mix for 60 seconds with high agitation. Add the second 25% of water and mix for 45 seconds. Add the last 50% of water and mix an additional 30 seconds or until uniformly mixed.

SHIPPING DATA

Packaging (Kits) 1G, 3G (G=Gallon Kits)

Shelf Life (indoors @ 40-100°F) 12 Months

WARRANTY

The following warranties apply to the BondTite 1503 Bond Enhancer & Moisture Proof Coating when used in conjunction with or as part of the Barrier-1 High Performance Concrete Admixture System or the Barrier-1 Topical System.

WARRANTY: ADMIXTURE

Barrier-1 Inc. warrants its product the Barrier-1 High Performance Concrete Admixture to be free from material defects and that the product conforms to its current applicable specifications of stopping moisture migration from the concrete itself for a period of ten years from the date of placement of concrete. This warranty is provided, if said product is installed according to and in compliance with the manufacturer’s instructions and requirements including the use of an ASTM E 1745-09 Class A Vapor Barrier maintaining a permeance of 0.01 US perms (grains/ft²*hr*inHg) or less after the required product conditioning specified in ASTM E 1745-09, installed following ASTM E 1643-98(2005) guidelines for all concrete slabs on ground, suspended concrete slabs do not require a vapor barrier. In the event there is a moisture

vapor emission complaint, Barrier-1 Inc. reserves the right to inspect and test any and all materials to determine the source of the problem. The sole and exclusive remedy of purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the placement of a topical moisture remediation material and the labor and materials, like the original installed products, required for the removal, replacement or repair of damaged floor covering materials, at the sole option of Barrier-1 Inc.. Barrier-1 recognizes that cracks, control joints and expansion joints are a source of moisture migration from the substrate of slabs placed on ground and warrants slabs on ground against moisture related flooring failures as long as an ASTM E 1745-09 Class A Vapor Barrier conforming to the above guidelines is utilized. Barrier-1 Inc. makes no other warranty, expressed or implied and is not responsible for substandard concrete workmanship in finishing. All claims concerning this product shall be submitted in writing within ten years of the warranty issue date. In no event shall Barrier-1 Inc. be liable for any special, incidental, consequential or punitive damages, including loss of profits and use.

Warranty is enforced upon Barrier-1 Inc. receiving the following information for new concrete placements utilizing Barrier-1 Admixture: concrete mix design prior to placement of concrete, confirmation of compliance with strict water to cementitious materials (w/cm) ratio guidelines by concrete supplier, and confirmation from concrete supplier that Barrier-1 was added in accordance with manufacturer's instructions and requirements.

Moisture testing of slabs containing Barrier-1 High Performance Concrete Admixture is not required for the Barrier - 1 manufacturer's warranty to be in effect when concrete is dosed according to Barrier-1's recommendations.

This admixture is formulated to eliminate the route of moisture vapor emission through concrete and meets or exceeds all guidelines pertaining to moisture emission as established by the flooring industry. All accounts must be paid in full and within the terms of payments, prior to any warranty being issued or enforced.

WARRANTY: TOPICAL SYSTEM

Barrier-1 Inc. (manufacturer) warrants its product, Barrier-1 Topical System, to be free from material defects and that the product conforms to its current applicable specifications of stopping moisture vapor emission from the concrete itself, resulting in a moisture vapor emission flooring failure, for a period of **ten years**. The warranty period starts from the date of the original installation. This warranty is provided if the said products are installed according to, and in compliance with the instructions and the requirements of the manufacturer. Moisture testing is not required for the installation of Barrier-1 Topical System. Barrier-1 Topical System has no maximum moisture vapor emission restriction. In the event there is a moisture vapor emission complaint, Barrier-1 Inc. reserves the right to inspect and test any and all materials to determine the source of the problem. The sole and exclusive remedy of purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the placement of a topical moisture remediation material and the labor and materials (like the original installed products) required for the removal, replacement or repair of damaged floor covering materials, at the sole option of Barrier-1 Inc. The manufacturer shall in no way be responsible for any acts of nature, inferior concrete, concrete additives, contaminates in the concrete, cracks or voids resulting after the product application, any incidental or consequential damage, without limitation, damage for lost profits, business interruption, property damage, economic loss or injuries to the person. Manufacturer shall not be

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liable to the buyer for contribution, or indemnity, or for other losses arising from the use of the products.

Any and all disputes or claims arising out of these products or relating to the provisions of the warranty must be arbitrated in Orlando, Florida utilizing the services of a neutral dispute resolution service upon which the buyer and seller agree, or if they cannot agree, then the services of the American Arbitration Association will be utilized.

Manufacturer claims policy is as follows: claims will not be considered until the flooring material and adhesive has been inspected by one or more of the following: company representative, or independent inspection service of manufacturer's appointment.

There are no other warranties expressed or implied including, but not limited to, any implied warranty of merchantability or warranties of fitness for a particular purpose.

All accounts must be paid in full prior to any warranty being issued or enforced.

Any recommendation or suggestion relating to the use of the products made by Wolverine Coatings or Barrier-1 Inc., whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.