

## PRODUCT DESCRIPTION

BondTite 1102 is a 100% solids, two-component epoxy primer specifically designed to mitigate moisture vapor transmission (MVT) and create a suitable surface for subsequent coatings. By reducing moisture vapor emissions, BondTite 1102 minimizes the risk of coating issues such as delamination and blistering. In high moisture vapor transmission conditions, BondTite 1102 is an essential primer for concrete. Additionally, it can serve as a clear sealer, though please note that prolonged exposure to sunlight may result in yellowing.

## APPLICATION DATA SUMMARY

**New Concrete:** Cure at least 28 days. Prepare concrete in accordance with SSPC-SP13/NACE #6 "Surface Preparation of Concrete." Shot-Blast concrete to provide a ICRI-CSP 3-4 surface profile. Contact your Wolverine Coatings Representative for recommendations to fill joints, cracks, spalls, and holes.

**Existing Concrete:** Surface must be dry, clean, free of oil, grease, form release agents, curing compounds laitance, other foreign matter and be structural sound. The minimum standard of cleanliness is SSPC-SP13/NACE #6 "Surface Preparation of Concrete." Shot-Blast concrete to provide a ICRI-CSP 3-4 surface profile. Contact your Wolverine Coatings Representative for recommendations to fill joints, cracks, spalls, and holes.

**Previously Coated Concrete:** Do not apply over existing coatings. All previous sealers, paint, and coatings must be removed through mechanical preparation. Once all existing coatings are removed, follow *Existing Concrete* above. If the existing coating cannot be removed, then please consult with your Wolverine Coatings Representative.

## SURFACE PREPARATION

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

## SAFETY PRECAUTIONS

Read the Safety Data sheet carefully before use. Safety precautions in the SDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion. For further information, please refer to our "Epoxy Resin Safety Handling Guide."

## APPLICATION DATA

Substrate:	Blasted concrete
Surface Preparation	
Steel	Not Recommended
Concrete	Blasted & properly prepared

Application Method:	Squeegee and back roll or Roller and back roll.
Thinner:	None
Equipment Cleaner:	MEK

Mixing: BondTite 1102 is packaged in pre-measured containers consisting of Resin Part A and Hardener Part B which must be mixed together before use.

Application Environmental conditions	
Temperature Range:	50-120°F
Max Relative Humidity:	80%
Surface Temperature:	55-90°F (>5°F Dew Point)

## SOLID (CURED) PHASE PHYSICAL DATA

Property	Value	Test Method
Finish:	Gloss	ASTM D523
Net Perms:	0.064	ASTM E96-13
Color:	Clear - CL1A	ASTM D1544
Components:	Two	
Curing Mechanism:	Chemical reaction	
Volume Solids:	100%	
Elongation:	4%	ASTM D638
Hardness:	72 Shore D (24 Hour)	ASTM D3363
Impact Resistance:	32 in/lbs.	ASTM D5420
Abrasion Resistance (taber):	82.75 mg (100g per arm/500, 1000 cycles)	ASTM 4060
Bond Strength (concrete):	Beyond limits of concrete	ASTM D541

## SOLID (CURED) PHASE PHYSICAL DATA - CONTINUED

Property	Value	Test Method
Max Chemical Resistance:	7 Days	
Max Exotherm: (110 mL)	364°F	
Temperature Limits:	200°F (100°C)	
Flashpoint (SETA):	Resin: 220°C (429°F) Hardener: 94°C (201°F)	ASTM D3278
*If out-gassing occurs, apply a second coat of BondTite 1102. Do not continue until out-gassing and pin holes are addressed.		

Theoretical Coverage:	ft <sup>2</sup> /Gallon
5 Mils:	320*
10 Mils:	160*
Recommended Thickness:	16-20 mils
Total Coats:	1 or more
*Depends on Porosity, please see Technical Application Bulletins for decorative broadcast, trowel, or slurry systems.	

## LIQUID PHASE PHYSICAL DATA

Mix Ratio:	2 Parts "A" to 1 Part "B" (By Volume) (Weight - 2.18:1)
Gel Time:	30-35 minutes (@ 77°F / 50% RH)
Induction Period:	None
Work Time:	20 Minutes
Rollability:	Yes
VOC:	None
Temperature limits:	200°F (100°C)
Flashpoint (SETA):	Resin: 220°C (429°F) Hardener: 94°C (201°F)

Cure Schedule (@ 50% RH) (ASTM 5595)			
	55°F	77°F	90°F
Tack Free	N/T	6 Hours	N/T
Light Duty	N/T	8.5 Hours	N/T
Through	N/T	11 Hours	N/T
Full	N/T	24 Hours	N/T

## LIQUID PHASE PHYSICAL DATA

Property		Value	Test Method
Density:	Resin	lbs./Gal	9.31
	Hardener	lbs./Gal	8.56
	Mixed	lbs./Gal	9.08
Viscosity:	Resin Viscosity	10 rpm*	680-880 cps
	Hardener Viscosity	10 rpm*	330-530 cps
	Mixed Viscosity	10 rpm*	650-850 cps
			ASTM D2196

## GENERAL LIMITATIONS

Do not apply over a wet surface.
Epoxies have limited ultraviolet resistance which may cause them to chalk, lose gloss, and / or discolor over time.
Touchup or repair of an existing coating is never aesthetically perfect.
Depending on mix design and curing / drying conditions, minimum age of concrete prior to application is 28 days.

## SHIPPING DATA

Packaging:	1G Kits, 3G Kits, 15G Kits (G=gallon units)
Shelf Life (indoors @ 40-100°F):	12 Months

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**SAFETY**

For your safety, all required personal protection equipment should be used when operating machinery or handling chemicals. Concrete dust is a source of silica particles and other hazardous materials that can cause silicosis and other illnesses. Proper safety equipment and methods are the responsibility of the installation company, general contractor, and/or facility owner.

**WARRANTY**

Wolverine Coatings Corporation warrants its products to be free from defects in material and workmanship. Wolverine Coatings Corporation's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Wolverine Coatings option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by the Buyer to Wolverine Coatings in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the ship date, whichever is earlier. Buyer's failure to notify Wolverine Coatings of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Wolverine Coatings makes no other warranties about the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by Wolverine Coatings, 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.

**LIMITATION OF LIABILITY**

Wolverine Coatings Corporation's liability on any claims based upon Wolverine Coatings Corporation's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall Wolverine Coatings Corporation be liable for consequential or incidental damages.

**LITERATURE REVISION - TDS: BondTite 1102 - Rev. 250205**

Published literature is subject to change without notice. Wolverine Coatings Corporation is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at [www.wolverinecoatings.com](http://www.wolverinecoatings.com).

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