

# Water Bond™ TECHNICAL DATA

## Water Based Epoxy

**Floor Topcoat  
Floor Coating**

**Low Yellowing  
Self Priming  
Water Cleanup  
VOC Class: Floor Coating VOC - 122 g/l**

<p><b>STANDARD PRODUCT DESCRIPTION</b></p>	<p>Water Bond is a two component water based floor epoxy that exhibits excellent characteristics that rival solvent based products. Water Bond has superb chemical resistance, abrasion, and substrate penetration.</p> <p>This product is not Southern California VOC compliant and cannot be sold in those counties.</p>
<p><b>USES</b></p>	<p>Concrete, wood, or masonry floor coating. Primer coat for 100% solids epoxy floor coatings.</p>
<p><b>CURE SCHEDULE</b></p>	<p>Pot Life (1 gallon volume) ..... 1.0 - 1.5 hours @ 75° F Tack Free (dry to touch) ..... 5 - 8 hours Recoat or Topcoat ..... 7 - 10 hours Light Foot Traffic ..... 16 - 24 hours @ 75°F Full Cure (heavy traffic) ..... 2-7 days @ 75°F</p>
<p><b>PHYSICAL PROPERTIES LIQUID FORM</b></p>	<p>COLOR ..... See color chart (approx. twelve colors) MIX RATIO ..... Colors - 4:1 by volume (8.55 lbs/1.75 lbs by weight) SHELF LIFE ..... 1 year in unopened containers FLEXIBILITY ..... No cracks on a 1/8" mandrel FINISH CHARACTERISTICS ..... Satin gloss (40-80 at 60 degrees @ Erichsen glossmeter) ABRASION RESISTANCE ..... Taber adrasor CS-17 calibre wheel with 1000 gram total load and 500cycles = 54 mg loss ADHESION ..... 425 psi @ elcometer (concrete failure, no delamination) IMPACT RESISTANCE ..... Gardner Impact, direct = 50 in. lb. (passed) VISCOSITY ..... Mixed = 900-1200 cps (colors) (typical) SOLIDS BY WEIGHT ..... Mixed = 53% (colors) (+, - 2%) SOLIDS BY VOLUME ..... Mixed = 41% (colors) (+, - 2%) VOLATILE ORGANIC CONTENT ..... Colors = 1.01 pounds per gallon (mixed) COVERAGE PER GALLON ..... Approximately 200 square feet APPLICATION TEMPERATURE ..... 55 - 90 degrees F with relative humidity below 75% PRIMER ..... None required TOPCOAT ..... Optional - Many products are suitable including multiple coats of this product. For added chemical resistance, color stability or UV stability, topcoat with Acrylic Poly UV Plus STORAGE ..... DO NOT FREEZE. Store at room temperature (60 - 90°F). Low temperatures or temperature fluctuations may cause crystallization.</p>

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<b>CHEMICAL RESISTANCE</b>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REAGENT</th> <th style="text-align: left;">RATING</th> <th style="text-align: left;">REAGENT</th> <th style="text-align: left;">RATING</th> </tr> </thead> <tbody> <tr> <td>acetic acid 5%</td> <td>B</td> <td>50% sodium hydroxide</td> <td>B</td> </tr> <tr> <td>xylene</td> <td>B</td> <td>10% sulfuric acid</td> <td>B</td> </tr> <tr> <td>MEK</td> <td>A</td> <td>20% nitric acid</td> <td>A</td> </tr> <tr> <td>gasoline</td> <td>B</td> <td>ethylene glycol</td> <td>C</td> </tr> <tr> <td>10% sodium hydroxide</td> <td>C</td> <td></td> <td></td> </tr> </tbody> </table> <p>Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term immersion.</p>	REAGENT	RATING	REAGENT	RATING	acetic acid 5%	B	50% sodium hydroxide	B	xylene	B	10% sulfuric acid	B	MEK	A	20% nitric acid	A	gasoline	B	ethylene glycol	C	10% sodium hydroxide	C		
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<b>SURFACE PREPARATION</b>	<p>All dirt, foreign contaminants, oil contamination and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. Place a 4" x 4" plastic sheet on the substrate and tape down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems.</p>																								
<b>APPLICATION</b>	<p>Thoroughly mix the two components using the mix ratio specified on the front of this sheet. Water Bond is an emulsion product and should be mixed well before, especially along the bottom and sides of the mixing container. Mix only an amount of material that can be used in the allotted pot life period. Improper mixing may result in product failure.</p> <p>The mixed epoxy can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up on the roller. Do not try to continue application when the coating has reached this step. Applications made at different times with differing environmental conditions, may show slight variations in gloss.</p> <p>If you opt to topcoat, you must first be sure that all of the solvents and water have evaporated from the coating during the coating process. Test by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). A blush must be removed prior to topcoating or recoating using a standard detergent cleaner. The curing cycle requires the water in the product to completely evaporate away. High humidity, closed spaces and low temperature may greatly retard the evaporation.</p>																								
<b>LIMITATIONS</b>	<p>Surface cleaning - Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique.</p> <p>All new concrete must be cured for at least 30 days.</p> <p>Product color may vary from batch to batch.</p> <p>This product will yellow in the presence of UV light.</p> <p>Light or bright colors (white, safety colors, etc.) may require multiple coats.</p>																								
<b>TRANSPORT</b>	<p>Not regulated by USDOT, IATA &amp; IMO.</p>																								

**SAFETY:** This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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