



HARDBOND™ Water Based Polyurethane Matte Finish

DESCRIPTION

HARDBOND™ Water Based Polyurethane is a two component waterborne polyurethane coating system. It provides outstanding appearance, good chemical resistance as well as excellent physical properties.

PRIMARY APPLICATIONS:

- Grocery and department stores
- Hospitals and healthcare facilities
- Museums, banks and institutional structures
- Offices and government buildings
- Schools, colleges and universities
- Commercial and general service industrial environments

ADVANTAGES:

- VOC level: 31 g/L
- Fast dry speed
- Early water resistance
- Long pot life
- Excellent adhesive properties, allowing application on other firm and hard coating as well as a good bond to the substrate
- Superior chemical resistance
- Superior U.V. resistance
- Outstanding appearance

TECHNICAL DATA

	<u>Part A</u>	<u>Part B</u>	<u>Mix</u>
Color	Upon request	Amber	Upon request
Recommended Thickness			4-6 mils (100-600 sq. ft/gal)
Shelf Life	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
Mix Ratio, By Volume	A:B = 4 : 1 : 1 (Water)		
Mix Ratio, By Weight	A : B = 100 : 25.7		
Pot Life 16 oz. (454 G)	1 – 3 hours @ 77° F (25° C)		

PROPERTIES @ 73 degrees Fahrenheit and 50% R.H.

*Times are approximate and will be affected by; changing ambient conditions, especially changes in temperature and relative humidity.

*The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.

SOLIDS CONTENT BY VOLUME – CLEAR	Part A: 60-70%, Part B: 60-70%, Mixed: 60-70%
SOLIDS CONTENT BY WEIGHT – CLEAR	Part A: 60-70%, Part B: 60-70%, Mixed: 60-70%
DENSITY (KG/L)	Part A: 1.04, Part B: 1.07,
THINNER RECOMMENDED	Water
DRYING TIMES	
TACK-FREE	
RECOAT TIME	4 - 6 hours
FOOT TRAFFIC	12 – 24 hours
NORMAL TRAFFIC	24 – 48 hours
HEAVY EQUIPMENT TRAFFIC	>72 hours
FULL CURE	4 – 7 days
ABRASION RESISTANCE, ASTM D4060	0.3 gloss
TABER ABRASER CS-17 WHEEL/1000 G (2.2 LBS)/100 CYCLES	
WATER ABSORPTION, ASTM D570	1.5 %
HARDNESS (SHORE D), ASTM D2240	70 - 75
VISCOSITY @77 DEGREES F (25 DEGREES C)	18-22
BOND STRENGTH, ASTM D4541	>300 (substrate ruptures)
IMPACT RESISTANCE: DIRECT/REVERSE (LBS)	16/22
ASTM D-2794	
@50° F (10° C) AND 50% RH	>230° (110° C), PMCC, mixed
CLEAN UP	Water
REDUCER	R8K10, up to 10% as needed

IMPORTANT NOTES

-The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.

-The indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.

SURFACE PREPARATION

The surface must be sound and clean. Remove any dust, grease, oil, dirt, curing agents, wax, foreign substances and disaggregated substances by sanding or by other approved methods. Standing water must be removed from the surfaces but if primer is applied, the surface can be damp. Porous surfaces may require multiple priming.

MIXING:

Materials should be pre-conditioned to a minimum of 50° F (10° C) prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of A:B = 4:1 by volume, then fill the part B metal can with water and add it to the mix. Mix components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

APPLICATION:

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING:

Clean all application equipment with soapy water followed by a solvent rinse. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS:

- Minimum/Maximum temperature of substrate: 50° F/ 86° F (5° C/30° C)
- Maximum relative humidity during application and curing: 80%
- Substrate temperature must be 5.5° F above dew point measured
- Humidity content of substrate must be <4% when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- Avoid exterior use on substrates at ground level
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.
- Surface may discolor in areas exposed to regular ultraviolet light

HEALTH AND SAFETY

Always wear proper safety equipment to protect eyes and skin. Keep a neat, clean mixing area to avoid potential safety issues. Make sure to read and understand all SDS sheets and become familiar with all application procedures and best practices. Recommended for use by professionals only! In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of Allsource Supply Inc. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. Allsource Supply assumes no legal responsibility for use upon these data. Allsource Supply assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.

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