

PP-B100 HIGH PERFORMANCE POLYUREA BASE COAT

TECHNICAL DATA SHEET

DESCRIPTION

PurEpoxy PP-B100 Polyurea Base Coat is a fast curing, hybrid polyurea, 100% solids, very low-VOC base coat for color quartz or vinyl mosaic flake broadcast. It comes pre-pigmented for easy mixing and application. It is designed to be used in conjunction with **PurEpoxy PPS-89 Polyaspartic Top Coat** for a fully compatible, seamless, fast-curing flooring system for a wide variety of applications.

PurEpoxy PP-B100 Polyurea Base Coat is solvent-free and safe for interior applications, and offers rapid turn-around and return to service.

ADVANTAGES

- Very low odor
- Fast curing, tack-free in 1 - 2 hours¹
- Contains no solvents, safe interior applications
- May be top-coated in 2 hours
- Available in climate adjusted formulas for easy use in a wide range of temperatures

TECHNICAL DATA

PACKAGING	3 US gal (3x1) (18.9 L) or 15 US gal (3x5) (56.78 L)
COLOR	Pre-pigmented in standard colors, refer to color chart
RECOMMENDED THICKNESS ²	10 mils (160 ft ² /gal)
SHELF LIFE	12 months in original unopened factory sealed container. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.
MIX RATIO, BY VOLUME	A:B = 2A : 1B
POT LIFE, 16 oz (500g) MASS	Winter Formula ~35 minutes @ 55° - 65°F (12.5 - 18.3°C) Summer Formula ~35 minutes @ 75° - 85°F (24.3 - 29.5°C) Tropical Formula ~35 minutes @ 85° - 95°F (29.5 - 35°C)
VOC	8.6 g/l
THINNING	Not Recommended
SOLIDS CONTENT BY WEIGHT	100%

¹ Higher humidity and air movement will shorten working & cure time. Actual recoat times depend on seasonal formulation.

² Application in excess of 10 mils (160 ft²/gal) may result in foaming.

PROPERTIES
@ 73°F (23°C) AND 50% RH.

WAITING TIME/RECOAT TIME	SEASONAL FORMULA	MINIMUM	MAXIMUM
MINIMUM RECOAT TIME	WINTER @ 55° - 65°F (12.5 - 18.3°C)	~2 hours	~8 hours
	SUMMER @ 75° - 85°F (24.3 - 29.5°C)	~2hours	~8 hours
	TROPICAL @ 85° - 95°F (29.5 - 35°C)	~2 hours	~8 hours
FULL CURE	WINTER @ 55° - 65°F (12.5 - 18.3°C)	~8 - 16 hours	~16 hours
	SUMMER @ 75° - 85°F (24.3 - 29.5°C)	~8 - 16 hours	~16 hours
	TROPICAL @ 85° - 95°F (29.5 - 35°C)	~8 - 16 hours	~16 hours
BOND STRENGTH		>350 psi (Concrete substrate failure)	
HARDNESS, (SHORE D), ASTM D2240		76	
ABRASION RESISTANCE ASTM D4060		35 mg loss	

Stated cure and recoat times are ~approximate and will be affected by changing temperature, humidity

SURFACE PREPARATION

Concrete substrates should be cured for a minimum of 30 days and have a minimum compressive strength of 3,000 psi. Surfaces must be clean, sound and properly prepared. Suitable preparation methods are recirculating abrasive shot-blasting, and/or diamond abrasive grinding. Remove all surface contamination before preparation. All soil, grease, oil, wax, or curing-agents, must be removed.

Any preparation method should produce a uniform surface profile of CSP-3 (ICRI Guide 03732,) or greater. Acid etching of concrete is unacceptable and will void Manufacturer's warranty.

Existing, well-adhered compatible coatings may be prepared by sanding or grinding to produce a uniformly open, gloss-free surface.

Do not apply to wet or damp substrates. Test for concrete moisture before application (see **Concrete Moisture.**)

Thoroughly vacuum prepared surface to remove all dust just prior to application. Protect prepared surface against contamination prior to application of product.

CONCRETE MOISTURE

Test for concrete moisture in accordance with ASTM F2170-19 (Wagner® RapidRH™ or similar.) If moisture is indicated to be in excess of 85%, apply PurEpoxy PE-VRM system in accordance with the published technical data sheet.

Alternately, test for excessive concrete moisture in accordance with ASTM F2659. Moisture content of concrete substrate must be ≤ 4 % by mass as measured with an impedance type (Tramex® CME/CMExpert) concrete moisture meter on prepared surface. Do not apply to concrete substrate with moisture levels > 4 %. If moisture content of concrete substrate is > 4 %, use **PurEpoxy PE-VRM** system in accordance with the published technical data sheet. Do not utilize resistance type moisture meters (Delmorst & similar).

MIXING

Precondition all components for 24 hours to ambient temperatures. Premix pigmented A component for a minimum of 3 minutes to ensure uniform pigment dispersion. In clean mixing pail, mix measured parts (2A : 1B).

Mechanically mix only, do not mix by hand. Do not mix more material than can be distributed and applied in the working time window. Using a Jiffy/Jiffler, or similar type mixing attachment, slowly mix the components being careful not to introduce excessive air.

Mix for 3 minutes. Ensure all material is scraped by side wall and bottom of mixing container. Apply material to floor immediately after mixing. Delay in distributing product will result in exothermic heat buildup in container.

APPLICATION

The recommended application method is the use of non-marking rubber squeegee and roller application.

18-inch rollers are recommended on larger area floors to reduce lap marks. Roller should have solvent-resistant phenolic core, high quality non-shedding fiber cover. Use 1/4-inch to 3/8-inch nap, depending on final finish and thickness desired. Quality brushes or wall-edgers may be used for cutting in margins.

Distribute material evenly with non-marking (gray EPDM type, or similar) rubber flat squeegee. Apply an even film at the desired thickness. Roll material in two directions to achieve uniform film. Finish roll in one direction, typically at right angles to primary sight-line when entering room.

LIMITATIONS

- Prior to application, measure and confirm the ambient temperature and humidity conditions of air and substrate
- Measure and confirm temperature of material. Precondition material for 24 hours prior to mixing
- Minimum/Maximum substrate temperature at application: 45°F (7.2°C) / 85°F (30°C)
- Maximum relative humidity during application and curing : 80%
- Substrate must be 5°F (3°C) above dew point. Ensure conditions will not change during application and curing
- Observe concrete moisture limitations stated in Concrete Moisture section
- On porous, non-concrete substrates, ensure that there will be no moisture penetration on positive side
- Protect from moisture and condensation for 24 hours after application
- Do not apply to substrates exhibiting or tested positive for alkali silica reaction (ASR)
- Do not use propane or kerosene fueled heaters. Permanent discoloration of coating may occur
- For professional use only by experienced personnel

HEALTH & SAFETY

Read and fully understand all of these instructions before beginning mixing and application. Read and understand product SDS and other safety warnings.

Obtain and wear all required personal protection equipment (PPE.)

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.

• KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION

Prior to each use of any product manufactured by A.P Nonweiler/PurEpoxy, its subsidiaries or affiliates, the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at <https://purepoxy.com/documentations/> or by calling A.P Nonweiler. Nothing contained in any A.P Nonweiler/PureEpoxy literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the A.P. Nonweiler/PurEpoxy product.

WARRANTY STATEMENT

AP Nonweiler/PurEpoxy ("we," "us," or "our") warrants this product for one year from the date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. No warranty shall be in effect until our Terms and Conditions of Sales are met in full. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL WE OR OUR AFFILIATES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE, REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW, INCLUDING, WITHOUT LIMITATION, BREACH OF ANY OBLIGATION OR WARRANTY IMPOSED ON US HEREUNDER OR IN CONNECTION HERewith. AP Nonweiler/PurEpoxy SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. AP Nonweiler/PurEpoxy SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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