



Basic-Crete Urethanes – Epoxies – M.M.A.s

## PRODUCT DATA SHEET

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# Basic Epoxy PB

### DESCRIPTION

BASIC EPOXY PB is a low viscosity, 100% solids resin system used in a variety of flooring applications including high build coatings, aggregate-filled flooring and decorative epoxy pebble applications. This material cures blush-free and provides an outstanding balance of physical strength, flexibility and chemical resistance. BASIC EPOXY PB has excellent clarity for use over color quartz aggregate and decorative architectural concrete. The pigmented material features high pigment loading for good substrate hide and color consistency when roller applied.

### COLORS

BASIC EPOXY PB comes in 9 standard colors, plus clear.

### SURFACE PREPARATION

Concrete must be cured 30 days and be clean, dry, and structurally sound. If using damp surface hardener, surface may be damp but with no visible water. All loose paint and curing compounds must be removed. Surface must be shot blasted, abraded or acid etched to achieve a minimum 5 mil profile. If acid etched, machine scrubbing is required. Adhere strictly to guidelines listed in the Arizona Polymer Flooring Surface Preparation Manual. Previously coated surfaces must be mechanically cleaned and abraded with 60-80 mesh sandpaper prior to application.

### IMPORTANT NOTE - WARRANTY

Basic Polymers™ products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

### HANDLING PRECAUTIONS

Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

### APPLICATION RECOMENDATIONS

Basic Epoxy PB may be applied by roller, trowel or squeegee. For use in aggregate filled flooring, see Arizona Polymer Flooring Application Manual. When applied as an unfilled system, Basic Epoxy PB may be thinned with up to 15% Acetone, MEK or Glycol Ether EP. Product must be thinned 10-15% when using as a reglaze material for epoxy pebble system. If using in aggregate filled flooring, do not add solvent.

### STORAGE CONDITIONS

Refer to BASIC POLYMERS™ manual.

### MIXING INSTRUCTIONS

If using regular cure material, pot life is 35 minutes at 77 degrees. Pot life of fast cure material is 15 minutes. Work times are shortened by higher temperatures. Pouring material on floor immediately after mixing will extend work time. Combining ratio is 2 part A to 1 part B. If using pigmented material, stir Part A well, bringing settled pigments up from bottom of container before adding Part B. Proportion the amounts carefully and mix for 2 full minutes using a low speed drill, scraping the bottom and sides of the mixing vessel.

### MOISTURE VAPOR EMISSIONS/ ALKALINITY PRECAUTIONS

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. Basic Polymers™ is not responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

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"Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product."

**PHYSICAL PROPERTIES**

Mixing Ratio, by Volume	2-1	
Solids Content, %	100%	
Viscosity, cps (77 ° F)	250	
Pot Life, (77 ° F, Regular Cure 1 quart mass)	30 minutes	
Pot Life, (77 ° F, Fast Cure)	15 minutes	
Pot life reduced by increasing temperature or mass		
Cure times (77 ° F)	<u>Regular Cure</u>	<u>Fast Cure</u>
Dry to touch	6 hours	3 hours
Light Traffic	16 hours	6 hours
Full Chemical Resistance	7 days	5 days
<b>PERFORMANCE PROPERTIES</b>		
Tensile Strength, psi (ASTM D-638)	6,230	
Ultimate Elongation, % (ASTM D-638)	11	
Compressive Yield Strength, psi (ASTM D-695)	9,850	
Ultimate Flexural Strength, psi (ASTM D-790)	19,501	
Ultimate Compressive Strength, psi (ASTM D-695)	9,680	
Hardness, Shore D (ASTM D-2240)	83	
Bond Strength to concrete	Concrete fails before loss of bond	

**CHEMICAL AND STAIN RESISTANCE**

Vegetable Oil	No effect
Mustard	No effect
Urine	No effect
Gasoline	No effect
Motor Oil	No effect
Transmission Fluid	No effect
Brake Fluid	Slight softening, film recovers
Mineral Spirits	No effect
10% Sulphuric Acid	No effect
10% Hydrochloric Acid	No effect
10% Acetic Acid	No effect
Xylene	Slight softening, film recovers
MEK	Film destroyed