



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

PRODUCT DATA SHEET

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BASIC FLEXIBLE EPOXY

DESCRIPTION

BASIC FLEXIBLE EPOXY is a 100% solids, medium viscosity, flexible epoxy system. It has excellent elongation, hardness and impact resistance. The material cures blush-free and forms a tenacious bond to damp concrete and properly prepared metal. It can be purchased in a thickened paste version for easy joint and crack filling. A special hardener is available where cold weather cure down to 40 degrees or accelerated room temperature cure is required.

COLORS

BASIC FLEXIBLE EPOXY comes in pewter and clear only.

SURFACE PREPARATION

Concrete must be cured 30 days and be clean, structurally sound and free of wax, loose paint or curing compounds. Concrete should be sand blasted, shot blasted or acid etched to achieve a minimum 5 mil profile. **If acid etched, machine scrubbing is required. Carefully follow the guidelines listed in the Arizona Polymer Flooring Surface Preparation Manual.** Surface may be damp, but standing water must be removed. Joints and cracks should be thoroughly cleaned by routing and all dust removed. Metal must be clean, dry and profiled by abrasive blasting.

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 FLEXIBLE EPOXY can be applied by brush, roller, notched trowel or airless spray. BASIC FLEXIBLE EPOXY is usually applied with a flexible putty knife. For detailed instructions on industrial joint repair, see Basic Polymer™ Flooring Application Manual.

STORAGE CONDITIONS

Refer to BASIC-CRETE manual.

MIXING INSTRUCTIONS

Pot life of regular cure material is 45 minutes at 77 degrees. Pot life of fast cure material is 15 minutes. Work times are shortened by higher temperatures. Pouring mixed material on floor immediately after mixing will extend work life. Combining ratio is 2 parts 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. If using the paste material, remember that mixing is more difficult. Incomplete homogenization will result in improper cure.

PHYSICAL PROPERTIES

Solids Content, %	100%
Mixing Ratio, by Volume	2-1
Viscosity, cps (77 ° F)	1,250
Pot Life, (77 ° F, Regular Cure 1 quart mass)	45 minutes
Pot life reduced by increasing temperature or mass	

Cure times (77 ° F)	Regular Cure	Fast Cure
Dry to touch	12 hours	6 hours
Light Traffic	24 hours	12 hours
Full Chemical Resistance	7 days	5 days

PERFORMANCE PROPERTIES

Tensile Strength, psi (ASTM D-638)	1,100
Ultimate Elongation, % (ASTM D-638)	60
Bond Strength to Damp Concrete	Concrete fails before loss of bond
Tensile Shear Strength to Steel (ASTM D-1002)	25,000
Ultimate Compressive Strength, psi (ASTM D-695)	19,480
Hardness, Shore D (ASTM D-2240)	86

"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."

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.