



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

## PRODUCT DATA SHEET

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# BASIC ALIPHATIC URETHANE

### DESCRIPTION

BASIC ALIPHATIC URETHANE is a two component, high solids aliphatic polyurethane formulated to comply with California V.O.C. regulations. This product offers a remarkable combination of performance properties not found in other polymer coatings. BASIC ALIPHATIC URETHANE produces protective films which are hard, flexible and very impact resistant. These coatings feature high abrasion and scratch resistance, exterior durability, easy soil release and excellent resistance to a broad range of chemicals. For exterior applications, a U.V. stabilizer package is incorporated to insure long term chalk resistance and gloss retention. A special accelerator is available when rapid project turnaround is required.

### COLORS

BASIC ALIPHATIC URETHANE comes in 9 standard colors plus clear.

### SURFACE PREPARATION

BASIC ALIPHATIC URETHANE is intended to be applied over primed or previously coated surfaces. Do not apply directly to concrete. Surface must be absolutely clean, dry and free from all dirt, wax, oil, chalk, incompatible paint or detergent film. Fully cured, previously coated surfaces must be cleaned and sanded lightly with 80-100 grit sandpaper or otherwise mechanically abraded before recoating. If multiple coats of BASIC ALIPHATIC URETHANE are applied, apply additional coats as soon as possible. If more than 24 hours has elapsed or the coating cannot be indented with a fingernail, lightly sand surface to insure intercoat adhesion, or apply a thin tie coat.

### 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.

### APPLICATION RECOMENDATIONS

BASIC ALIPHATIC may be applied by brush, roller or airless spray. Apply at 275-350 sq. ft. per gallon with 3/8" or 1/2" nap roller as a finish coat over primed concrete. May be applied up to 200 sq. ft. per gallon as a fill coat in aggregate-filled flooring systems using a rubber squeegee and back rolling with a 3/8" nap roller. If using the satin version of this material, it is very important to achieve a uniform application rate of 300-350 sq. ft. per gallon. Heavier films will be glossier, thinner applications will be flatter.

### STORAGE CONDITIONS

Refer to BASIC POLYMERS™ manual.

### MIXING INSTRUCTIONS

Mix only that amount of material that can be used in a 2 hour period at 77°F. Higher temperatures and the addition of accelerator will reduce work time. In hot weather, mix smaller batches. If using the pigmented system, premix part A well before adding part B. Combining ratio is 2 parts A to 1 part B. **Proportion the amounts carefully and mix for two full minutes using a slow speed drill, scraping the bottom and sides of the mixing container.** Use of the satin material requires the addition of accelerator at the time of use. Add 8 oz. for each gallon of Part A. Material is normally applied as received, but may be thinned with up to 15% solvent. Always thin the satin material to achieve a low application viscosity. When thinning in California, the compliant solvents acetone and PCBTF must be used. In hot weather, PCBTF is preferred due to its slower evaporation rate. In non-California use, MEK or Xylene are the preferred solvents. Avoid contamination with moisture. Reseal partially used containers completely after use.

### 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.

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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."

## **CHEMICAL AND STAIN RESISTANCE**

Vegetable Oil	No effect
Whiskey	No effect
Mustard	No effect
Urine	No effect
Gasoline	No effect
Motor Oil	No effect
Transmission Fluid	No effect
Brake Fluid	No effect
Mineral Spirits	No effect
25% Sulphuric Acid	No effect
25% Hydrochloric Acid	No effect
25% Acetic Acid	No effect
25% Nitric Acid	Film blistered
50% Sodium Hydroxide	No effect
Xylene	No effect
MEK	Film softened

## **PHYSICAL PROPERTIES**

Mixing Ratio, by Volume	2-1
Solids Content, By Weight (Pigmented)	62%
Solids Content, by Volume (Pigmented)	59%
Solids Content, by Weight (Clear)	60%
Solids Content, by Volume (Clear)	54%
Viscosity, cps (77 ° F)	500 avg
V.O.C.	100 grams/liter
Pot Life, (77 ° F, 1 quart mass)	2 hours
Pot Life, (95 ° F, 1 quart mass)	1 hour
Pot life reduced by increasing temperature or mass	
Dry times (77 ° F)	
Dry to touch	4-6 hours
Recoat	10-12 hours
Light Traffic	24 hours
Full Chemical Resistance	7 days
<b><u>PERFORMANCE PROPERTIES</u></b>	
Gloss (60 ° F)	90-95
Gloss (Satin Material, 60 ° F)	50-60
Hardness (Konig)	122
Tabor Abrasion (1000gm, load 1000 cycles, CS 17 wheel)	38 mg, loss
Flexibility (ASTM D-222)	passes 1/8 inch
Impact Resistance(ASTM D-2794)	passes 120 inch-pound direct and reverse

## **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.

## **PACKAGING**

Material is packaged in premeasured kits only and is available in 3/4 gallon, 1-1/2 gallon and 3 gallon units.

## **LIFE EXPECTANCY**

7-10 years, dependent on thickness and subject to correct maintenance regime. Basic Crete Mortar is not color fast and may change color over time (exhibits a yellowing effect). Color change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colors and blues but does not compromise the product's flexibility or chemical resistance characteristics. We have endeavored to adopt colors within our standard range which minimize this change.