



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

PRODUCT DATA SHEET

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is present, a good concrete sealer can be incorporated directly

BASIC-CRETE MORTAR

beneath the Basic Crete System.

DESCRIPTION

BASIC-CRETE MORTAR is heavy duty, chemical resistant antimicrobial treated polyurethane resin floor screed. BASIC-CRETE MORTAR provides a durable and attractive fine textured floor finish.

BENEFITS

- Contains Polygiene®, an antimicrobial additive based on silver ion technology
- Very High chemical resistance
- Easy to clean and sterilize anti-slip surface, minimal joints
- Heat resistant up to 250°F
- Steam cleanable
- Non tainting, non dusting
- High abrasion resistant
- Withstands high mechanical stress
- Good alternative to expensive acid resistant tiles
- Low odor during application

COLORS

BASIC-CRETE MORTAR is available in Mustard, Dark Green, Ochre, Cream, Mid Gray, and Red.

TYPICAL USES

BASIC CRETE MORTAR is designed to protect concrete from chemical attack, corrosion, impact and thermal shock. Repeated exposure to hot oil or steam does not cause pitting, cracking or crazing. Mortar is ideal for wet processing areas such as food manufacturing, food preparation areas and chemical processing plants. Typical areas of application:

- Chemical Processing Areas
- Food Processing Areas
- Wash Area
- Cook / Chill Areas
- Vehicle Aisles
- Bottling
- Sanitize / Plant

SURFACE PREPARATION

Concrete or screed should be a minimum of 3625 p.s.i. free from laitance, dust and other contamination. The substrate should be dry to ASTM requirements and free from excessive moisture vapor transmission. If no vapor barrier

APPLICATION METHOD/SPREAD RATE

BASIC-CRETE MORTAR is trowel applied at 1/4 to 3/8 inch thickness. The resin and hardener should be added to a forced circulation pail mixer and pre-blended for approximately 30 seconds. Gradually add aggregate until homogenous mix is attained. (Approximately 1 minute) Trowel, level and lightly roll with a 3/8-inch nap roller to eliminate trowel marks and to bring the resin to the surface. For maximum slip resistance in wet areas, broadcast #24 aluminum oxide or Q-Rock #3 into the wet resin.

STORAGE CONDITIONS

Refer to BASIC-CRETE manual.

CHEMICAL RESISTANCE

Hydrochloric Acid 10%	✓
Sulphuric Acid 25%	✓
Citric Acid 10%	✓
Acetic Acid 5%	✓
Lactic Acid 10%	✓
Acetone	✓
Methanol	✓
Sugar Syrups	✓
Caustic Soda	✓
Petrol	✓
Oil	✓
Detergents	✓

RATE OF CURE

TEMP	50°F	68 °F	86 °F
Light Traffic	36 hrs	24 hrs	12 hrs
Full Traffic	72 hrs	48 hrs	24 hrs
Full Chemical Cure	10 days	7 days	5 days

"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."

Microbial / Fungal Resistance

The materials antimicrobial additive incorporated into Basic Crete Mortar provides control of most bacteria and fungi which come into contact with the floor.

Staphylococcus Aureus	✓
Ecoli	✓
Salmonella Choleraesuis	✓
Listeria Welshimen	✓

CONTACT 100%	INHIBITION
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A.A.T.C.C. Test Method 147- 1993:
 The inclusion of Polygiene® within the screed matrix of the Industrial floor system ensures the permanency of this biocidal Additive even in the event of excessive surface wear. Polygiene® is effective following ingestion by living bacteria, whereupon metabolic activity within the organism is arrested. Atrophy of the organism follows, when subsequent Cleanings are performed regularly using a rotary scrubber. The Polygiene® additive is re-released, so ensuring a long life span in conjunction with a mildly alkaline activity at the floor surface.

PHYSICAL PROPERTIES

Compressive Strength to ASTM C579	7250	(psi)
Flexural Strength to ASTM C580	2900	(psi)
Tensile Strength to ASTM C307	1450	(psi)
Impact Resistance	(<0.5mm)	BS8204-1 CAT.A
ISO6272 2.2lb weight>70ins 4.4lb weight>59ins		
Temperature Resistance (°)		
	Dry	
	Wet	
	-40 ° to 230 ° F	
	220 °F Max	
Water absorption to Camden Test Nil		TSSH008
Abrasion Resistance by Taber (Loss per 1000 cycles in mg/1000g load).		
H22 Wheel to ASTM D4060	25mg	
Thermal Conductivity to BS874	1.20	W/m °C
Mixed Bulk	2.10	Density
Bond Strength-greater than cohesive Strength of 3625psi	220psi	concrete
Cohesive concrete failure		

Technical Information

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.

Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning.

Environmental and health

Important Note - Warranty

Basic Polymers™ products are guaranteed against defective materials and manufacture and are sold subject to its

The figures that follow are typical properties achieved in laboratory tests at 70 °F and at 50% Relative Humidity.

Fire Resistance	BS 467-7 Surface Spread of Flame: Class 2
Slip Resistance Pendulum Slip Test method Described in BS 7976-2	Dry >80 Wet>40 (dependent upon the texture achieved during laying)
Impact Resistance	BS8204-1 CAT: A (<0.5mm) ISO6272 2.2 lb weight > 70 ins 4.4 lb weight > 59 ins
Temperature Resistance	Tolerant up to 250 °F intermittent Spillages or constant 220 °F dry heat (at 3/8: thickness)
Water Permeability	Nil - Karsten test (impermeable)
Vapor Permeability	ASTM E96:90 3 g/m ² /24 hrs (at 3/8" thick)
Chemical Resistance	Go to www.basicpolymers.com Excellent resistance to sugars and most acids (organic and inorganic)
Abrasion Resistance	ASTM D4060 Taber Abrader: 25mg loss per 1000 cycles (1kg load using H22 wheels)
Compressive Strength	BS 8204-2: Class AR2 >7,250 psi (ASTM C579)
Flexural Strength	2,900 psi (ASTM C580)
Tensile Strength	1,450 psi (ASTM C307)
Bond Strength	Greater than cohesive strength of 3,625 psi concrete, >220 psi