



# PolyKrete MP

## Multipurpose Epoxy Flooring System

### DESCRIPTION:

PolyKrete MP is a three component epoxy system which consists of epoxy resin, hardener and selected graded aggregates. It is highly chemical resistant, abrasion resistant and has superior impact resistance. PolyKrete MP is moisture insensitive and is used as an overlay on new floors or to repair and restore old worn surfaces. Uses include: Overlays on concrete, wood, brick, quarry tile or metal @ 1/8", 1/4" or more, Sealing, and Patching

### PROPERTIES:

Epoxy resin and epoxy hardener are mixed 2:1 by volume. To each part of mixed epoxy, three parts of aggregates are added by volume. Mixed thoroughly and make samples. Cure these samples for seven days and check them according to ASTM tests.

Mixed Viscosity (Part A & part B)	400-600	ASTMD-2930
Pot life	35-45	ASHTO-T-237
Initial Cure @ 75°F hours	6	
Tensile Strength PSI	5000 Min	ASTMD-638
Tensile Elongation %	1-2	ASTMD-638
Tensile Strength (Mortar) PSI	1850	ASTMC-307
Compressive strength (Mortar) PSI	11000	ASTMC-579
Flexural Strength PSI	4000	ASTMC-580
Flexural Modulus of Elasticity PSI	2.0 X 10 <sup>6</sup>	ASTMD-790
Bond Strength PSI (Concrete failed.)	7,400	ASTMC-882
Indentation	None	MIL-3134F
Hardness Shore D	85-90	ASTMD-2240
Abrasion Resistance	0.09 gm.	ASTMD-1044
Water absorption %	0.08	ASTMC-413
Thermal Coefficient of Linear Expansion in/in/°F	3.5 X 10 <sup>-5</sup>	ASTMD-696
Coefficient of Friction	0.55	ASTMD-2047
Heat Exposure	Continuous 145°F	Intermittent Spills 200°F
Heat Deflection Temperature °F	154	ASTD-648
Fungus & Bacteria Resistance	Will not support growth of fungus or bacteria.	MIL-F-5205 Sec 4.4.2.11

**CHEMICAL RESISTANCE:** The test samples of PolyKrete MP are immersed in the following chemicals and they are periodically checked for a total period of three months. As a part of the maintenance procedure, these chemicals are cleaned up within 48-60 hours. See attached Chemical Resistance Table.

- Key: NR Not recommended
- R Recommended
- I Recommended for Intermittent Immersion
- S Recommended for splash & spillage
- \* May discolor during service

**SURFACE PREPARATION:**

**Concrete:**

Remove all dirt, dust, grease, oil, detergents, coatings which may prevent proper adhesion to the surface. One or both of the following methods should be used.

**Mechanical** - Use scarifier or shot blast for surface preparation. Any loose or weak concrete should be removed.

**Chemical** - Special detergents, Muriatic acid or others according to the manufacturer's recommendations.

**Steel:**

Should be sand blasted or abraded to white metal.

**FINISHED SURFACE:**

Finish surface can be;

1. Smooth finish
2. Non-skid surface

Apply two grout coats to achieve the desired texture of the surface.

**WATER PROOFING MEMBERANE:**

Where total system must be water proof, use Polythane-500 or Polylastic which is highly chemical resistant, flexible with very high tear strength. Fiberglass reinforcement can be applied to the Polythane-500 or Polylastic.

**COVE BASE:**

To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 4 to 6 inches may be specified.

**PACKAGING:**

PolyKrete MP can be packaged in units for easy handling and to avoid any measuring mistakes on the job site.

One unit packed in 5 gallon container consists of the following:

Epoxy Base = 1/2 gal.

Epoxy Hardener = 1/4 gal.

Blended aggregates = 45#.

Each unit will cover 17 sq.ft. at 1/4" thick. PolyKrete MP is available without sand or aggregates.

**Non-Warranty**

This product is made under strict quality control procedures of Delta Polymers, Inc. No guarantee is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any is limited to replacement of products which are defective in manufacture. No other warranty or guarantee of any kind is made by the seller, express or implied, statutory by operation or law or otherwise, including merchantability and fitness for a particular purpose.

**Caution**

Avoid contact with eyes and prolonged contact with skin. In case of eye contact, flush with plenty of water for at least 15 minutes and seek medical attention. For skin wash with soap and water. keep away from children. For details see product data sheet and MSDS.