

514 - FLEXIBLE EPOXY

DESCRIPTION:

MITON FLEX is a specially formulated two component multi-resin flexible epoxy with incredible adhesion properties and almost limitless capabilities for any type of application use. MITON FLEX can be custom formulated to any degree of flexibility from 5% to 30%. MITON FLEX can be supplied in 6 litre kits and 30 litre kits.

UNIQUE FUNCTIONS:

MITON FLEX can be used for application on marble, terrazzo, concrete, wood, metal surfaces or as a: epoxy marble, general purpose epoxy terrazzo, epoxy adhesive, non porous epoxy terrazzo decorative epoxy aggregate, non-skid floor covering, cement concrete bonding, epoxy stone coat, concrete patching & restoration, self leveling joint material.

OUTSTANDING FEATURES:

- High adhesion properties
- Chemical resistant
- Moisture insensitive
- Impact resistant
- Abrasive Resistant
- Shrinkage negligible
- Acid & alkali resistant
- Cures at room temperature
- Temperature insensitive
- Resists thermal movement
- Ample working time
- Application temp. - 18°C to 60°C
- Low viscosity
- Good electrical properties
- Resists cracking & chipping.



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PHYSICAL PROPERTIES:

Curing time: 2 hours, 5 days full cure.
Life expectancy: 20 years.
Tensile elongation: 5% to 30% (Adjustable by formulation).

TECHNICAL SPECIFICATIONS:

Compressive strength ASTM C-109
1 day (24 hrs.) 9,600 PSI
Compressive strength ASTM C-109
7 days (168 hrs.) 14,300 PSI
Tensile strength ASTM C-190
7 days (168 hrs.) 1,800 PSI
Flexural strength ASTM 0-790
7 days (168 hrs.) 3,200 PSI

TYPICAL USES:

- Floor overlayment for industrial plants
- Patching & repairing concrete surfaces
- Moisture & temperature barrier
- Balcony or deck traffic coating
- Casting with closed or open molds
- Potting any type of object
- Encapsulation of electronic components
- Concrete crack or joint repair
- (Horizontal or vertical)
- Concrete industry Marine applications Chemical industry

SURFACE PREPARATION:

All surfaces require some preparation in order to provide a clean and relatively smooth surface for coating. Contaminants may include dirt, oil, grease, mildew, efflorescence on masonry, rust or mill scale on steel, and chalked or loose paint. The most commonly used equipment for surface Preparation includes rotary wire tools, rotary disc tools, rotary impact chippers, needle scalers, abrasive blast cleaners, water blast cleaners, and detergent cleaners.



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APPLICATION:

MITON FLEX can be applied by pouring or gunning. One 6 litre kit (4 litres resin, 2 litres hardener) will cover 24 sq. ft. at 1/4" thickness. Minimizes traffic disruptions by its fast cure time (24 hrs.).

STORAGE:

Normal room temperature.

SAFETY:

Avoid contact with eyes, skin and clothing. Protective clothing, gloves & goggles are recommended. Contains an amine element which could be harmful if swallowed. If contact made in the eye, flush with lots of clean water and seek medical attention. In case of skin contact, wash with soap and water.

PACKAGING:

6 Litre Kits.

CHEMICAL RESISTANCE:

CODE: R = Resistant, C = Conditional Resistant, NR = Not Resistant

WATERS

Salt		R
Distilled		R
Fresh		R

ALKALIS

Calcium Hydroxide		R
Calcium Hydroxide	25%	R
Sodium Chloride Solution	(Saturated)	R
Cement Water	(Saturated)	R
Sodium Carbonate		R
Sodium Hydroxide	25%	R
Detergent Solution	(4% Ajax)	R

ACIDS

Hydrochloric	10%	R
Sulfuric	10%	R
Oleic	10%	NR
Citric	10%	R
Nitric	10%	R

SALT SOLUTIONS

Magnesium Chloride		R
Ferrous Sulfate		R
Ferric Chloride		R
Copper Sulfate		R
Calcium Chloride		R
Sodium Sulfate		R
Alum		R
Aluminum Sulfate		R
Trisodium Phosphate		R
Sodium Chloride		R
Sodium Acetate		R



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OXIDIZERS

Bromide	NR
Chlorine	NR
Sulfur dioxide	R

SOLVENTS

Gasoline	R
Toluol	R
Ketones	N

SUGGESTED PROCEDURES:

1. Clean & Etch the concrete surface with Miton (177) Grout & Concrete cleaner.
2. Rinse with water to neutralize the surface and let it dry for 24 Hours.
3. Prime the surface with Miton (704) concrete Water Repellent to prevent any moisture that is coming from underneath through the capillaries.
4. Apply first coat of Miton (514) 20% Flexible Epoxy with a squeegee.
COVERAGE: 200 Sq.Feet/Gallon.
5. The second coat of (514) 20% Flexible Epoxy, which is to be applied the next day with a trowel, must be mixed with sand No.50 Mesh.
RATIO: 1:2 By Weight
COVERAGE: 50 Sq.Feet/Gallon.

Leave it for 5 days for complete cure.

20 Hours foot traffic.

5 Days mechanical loading.

5 Days chemical exposure.

GUARANTEE:

MITON PRODUCTS are guaranteed 100% when used according to the manufacturer's specifications. Product application and surface conditions are beyond the manufacturer's control. Liability, if any, is limited to replacement of this product only.

Buyer assumes all risk in use and handling.



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