

QUICK SET IMPACT RESISTANT EPOXY

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DESCRIPTION

MITON 414 is a specially formulated two component multi-resin flexible quick setting epoxy with incredible adhesion properties and almost limitless capabilities for any type of application use.

UNIQUE FUNCTIONS:

MITON 514 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, cured concrete bonding, epoxy stone coat, concrete patching & restoration.

FEATURES

- ▶ High adhesion properties
- ▶ Chemical, acid & alkali resistant
- ▶ Impact and abrasive resistant
- ▶ Shrinkage negligible
- ▶ Fast curing
- ▶ Resists thermal movement
- ▶ Lower temperature curing.
- ▶ Application temp. 5°C to 60°C
- ▶ Low viscosity
- ▶ Good electrical properties
- ▶ Resists cracking & chipping.
- ▶ 100% solids, zero VOC's

APPLICATION

MITON 514 can be applied by pouring and spreading. Minimizes traffic disruptions by its fast cure time (8 hrs).

1. Remove dirt and debris by shotblast, sandblast, or water blast using 3000psi or higher pressure washer.
2. Clean & Etch the concrete surface with Miton (177) Grout & Concrete cleaner to help remove oils and concrete laitence.
3. Rinse with water to neutralize the surface and let it dry for at least 24 Hours.
4. Prime the surface with Miton (704) concrete Water Repellent to prevent any moisture that is coming from underneath through the capillaries.
5. Apply first coat of Miton 514 with a squeegee or roller.
6. The second coat of Miton 514 within 24 hours after initial cure is complete.

RATIO: Mix 2 to 1 resin to hardener by weight.
Pot life +/- 10 min. Extend by cooling product before mixing.

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LIMITATIONS

Do not apply immediately after rain or if rain if forecast within 24 hours. Do not apply if dewpoint is within 5°C of ambient temperature during initial 8 hour cure time. Do not apply when the surface or ambient temperature is below 5°C. Surface must be dry for 24 hours prior to application. Do not apply more than 2 cm neat product thickness or 4 cm if extended.

COVERAGE

Coverage: depending on viscosity at time of application. Approximately 150 sq.ft. per gallon by roll coating. Reduce to 100 sq.ft. per gallon per layer on semi-rough concrete surfaces.

Extend product with clean dry aggregate up to 3 parts aggregate to 1 part epoxy. To extend, add aggregate immediately following mixing of resin and hardener.

CURING

Exothermic reaction epoxy curing times will change with the ambient and surface temperatures. Initial curing at normal application temperatures is 2 hours. Warmer than room temperature applications will shorten cure times. Final cure after 5 days. +/- 4 hours open to foot traffic.

PACKAGING

6 litres (1.5 gallons)
 29 litre (7.5 gallon) pail.



CANADIAN CONSTRUCTION PRODUCTS

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IMPACT RESISTANT EPOXY

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TECHNICAL SPECIFICATIONS

Compressive	ASTM C-109 1 day (24 hrs.)	9,600 PSI
Compressive	ASTM C-109 7 days (168 hrs.)	14,300 PSI
Tensile	ASTM C-190 7 days (168 hrs.)	1,800 PSI
Flexural	ASTM 0-790 7 days (168 hrs.)	3,200 PSI
Tensile elongation		5 %

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

ADDITIONAL 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 preparation includes rotary wire tools, rotary disc tools, rotary impact chippers, needle scalers, abrasive blast cleaners, water blast cleaners, and detergent cleaners.

PRECAUTIONS

Store at 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.

Refer to MSDS for additional handling and care information.

FOR INDUSTRIAL USE ONLY

CHEMICAL RESISTANCE:

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

WATERS

Salt	R
Distilled	R
Fresh	R

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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

OXIDIZERS

Bromide	NR
Chlorine	NR
Sulfur dioxide	R

SOLVENTS

Gasoline	R
Toluol	R
Ketones	N

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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