

#### **MANUFACTURER**

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#### **DESCRIPTION**

A specially formulated prepackaged blend of Portland cement, aggregates, microsilica, fibers and other unique chemicals. Microsilica reacts chemically with the calcium hydroxide in the cement paste to produce a calcium silicate hydrate gel which yields a substantially improved in place concrete. Ideal for use where a fast setting time and high strength are desired. All ingredients are thoroughly premixed to ensure maximum strength and workability. Simply add water and mix.

#### **BENEFITS**

- Prepackaged to eliminate jobsite mixing errors.
- Contains a corrosion inhibitor
- Faster strength gains
- Less down time
- Very low porosity
- Better chemical resistance
- Can be coated in 48 hours.

#### **SUGGESTED USES**

2" topping of deteriorated concrete (epoxy bonding agent is recommended)
Pouring pedestals, curbs, equipment bases, etc.
Can be coated earlier than normal concrete.
(typically in 48 hours)

#### **APPLICATION**

As a Topping: Begin by preparing the substrate. Substrate must be sound and free from laitance, loose particles, dust, dirt, from oils, paints, curing compounds or any thing that would be a barrier to the existing concrete. Remove deteriorated concrete, and/or anti-adherents by mechanical means i.e.: chipping, sandblasting, grinding, shot blasting, etc. The use of a long open time epoxy bonding agent is recommended.

### SILATEC CONCRETE

## Microsilica Enhanced Concrete Mix

For Placing: Use similar placement/forming techniques as conventional concrete.

#### **MIXING**

Begin by adding cool, clean water to the mixing vessel at a rate of 3 ½ to 4 quarts per 65 lb. bag of SILATEC CONCRETE. Add powder and mix to a smooth, lump free, low slump consistency. Avoid a soupy mix: excess water will reduce the strength and durability.

#### **PACKAGING**

65 pound bag yields approx. .53 cu. ft.

#### FOR BEST RESULTS

In cold weather use warm (not hot) water for mixing. Dampen the surface of the work area before applying the new material. For a rough or non-slip surface, use a wooden float or broom. For a smooth finish, use a steel trowel. Avoid over troweling. For proper curing, keep moist for 3 days with an occasional fine spraying with water or cover with wet burlap or plastic. The use of a curing compound conforming to ASTM C-309 will also work; however curing compounds will need to be mechanically removed prior to coating. (Check with the coating manufacturer.) Hot weather: (above 80 degrees) will cause faster setting; mix with cold water or ice to slow setting time.

#### **CLEAN UP**

Clean up is simple and easy with soap and water. Clean tools before material hardens.

#### **PRECAUTIONS**

Contains Portland cement; avoid eye contact or prolonged contact with skin.

Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately. Keep out of reach of children. Contains free silica - DO NOT breathe dust. May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica (quartz).



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# Microsilica Enhanced Concrete Mix

#### **TECHNICAL DATA**

**Compressive Strength** 

ASTM C-109 (modified)

24 hr. 4062 PSI
3 day 6850 PSI
7 day 7500 PSI
28 day 8670 PSI

**Bond Strength** 

ASTM C-882 (modified) 28 day 2000 PSI

Flexural Strength

ASTM C-293

7 day 605 PSI 28 day 960 PSI

Split Tensile Strength

**ASTM C-496** 

28 day 500 PSI

Shrinkage

28 day (0.03)

Freeze/Thaw ASTM C-666

100 cycles – no damage