



Epoxy.com Product #685

MMA Polymer Crack Healer & Sealer

DESCRIPTION

EPOXY.COM PRODUCT #685 Liquid MMA Polymer is for injection repair or as a penetrating sealer on concrete. It is a two component Methyl Methacrylate resin system that polymerizes in place. The extremely low viscosity will penetrate into concrete cracks as fine as 0.003 inches.

ADVANTAGES

Extremely low viscosity

Potlife can be adjusted to control gel time, for winter or summer application.

Has been used with patented vacuum process systems

Ideal for use with injection machine, hand held caulking guns, or single tube filling gun

Bond strength to concrete exceeds concrete tensile strength

Winter Formula can be used on dry surfaces at temperatures as low as -20° F

PHYSICAL PROPERTIES

Color Amber

Viscosity 10 c.p.s.

Gel Time 20-30 minutes

Cure Time 80% in 6 hours @ 50°F (10 C) Adhesion

to Concrete 2,000 psi 13.79 Mpa Compressive

Strength, 7 days 12,000 psi 96.53 Mpa Tensile

Strength, 7 days 5,000 psi 34.47 Mpa

Flex. Strength 12,000 psi 82.74 Mpa

Linear Shrinkage 1%

APPLICATION

SURFACE PREPARATION: Concrete cracks to receive **EPOXY.COM PRODUCT #685** (MMA) must be clean, dry and sound. The drier the concrete, the deeper the penetration into fine cracks. Clean cracks using vacuum or compressed air to remove debris from cracks. Compressors must employ inline traps or filters to prevent water or oil from contaminating crack

MIXING: One 50 gram bottle of B Component is mixed with 1 gallon A Component. Open

Component A and put Component B (initiator) paste into Component A container (one 50 gram bottle of B for each 1 gallon of A, or five 50 gram bottles of B for each five gallon unit of A). Mix for 2-3 minutes with a low speed drill and **Epoxy.com -Mixing Paddle**. After mixing, a slight amber color liquid polymer will form.

APPLICATION:

EPOXY.COM PRODUCT #685 is applied to horizontal surfaces by squeegee, roller or brush. Spread material over area and allow to pond over cracks. Permit material to penetrate into cracks and substrate; remove excess material leaving no visible surface film. For cracks greater than 1/8" (3.2 mm) wide, fill crack with oven-dried fine sand before applying **PRODUCT #685**. Seal cracks with **Epoxy.com Product #703 Trowel Grade Epoxy** from underside, when accessible, to prevent leakage. Recoating may be required on very porous surfaces. After treatment, wait at least (20) minutes at 72 °F (22.2 ° C), before opening to traffic.

LIMITATIONS

Do not leave puddles which can cause slippery surface. To prevent slippery surfaces, broadcast dry silica sand or **Epoxy.com Product #75 Filler**. Do not apply to a damp or wet surface. Do not use below -20°F.

COVERAGE

Coverage depends on porosity of concrete, masonry or timber surface. 150 to 200 (1.03 - 1.38 MPa) square feet are the usual range normal.

PACKAGING: 1 gallon (3.8 L) , 5 gallon (18.9 L) units or 54 gallon (204.4 L) drums.

CAUTION: DANGER! FLAMMABLE! A Component contains Methyl Methacrylate. **B Component** contains Benzoyl Peroxide.

Use only with good ventilation. Avoid inhalation of vapor. Prevent all contact with eyes, skin and clothing. Wash thoroughly after handling. keep containers closed when not in use.

FIRST AID IN CASE OF CONTACT: If contact with skin occurs, wash immediately with soap and water, and contact a physician. if contact with eyes, immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. Wash clothing before reuse and discard contaminated shoes.

WEAR PROTECTIVE CLOTHING, GOGGLES, GLOVES AND/OR BARRIER CREAMS.

**FOR INDUSTRIAL USE ONLY
KEEP AWAY FROM CHILDREN**

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