

TECHNICAL DATA SHEET

Product: MASCOFLEX FASTPATCH KIT (Formerly MASCOBOND FASTPATCH KIT)
Revision Date: 4/7/2015

DESCRIPTION

MASCOFLEX FASTPATCH is a 100% solids, 3 component, moisture insensitive, low modulus epoxy resin repair system. The resin binder is designed to have high elongation and flexible properties, which make it suitable for use in applications where resistance to impact, mechanical, and thermal movements are required.

USES

- Use for a wide range of concrete repair and restoration.
- Use to repair concrete floors in warehouses, loading docks, parking decks and ramps, bridge decks and other areas where permanent repair resistant to impact, thermal and mechanical movement is required.

FEATURES AND BENEFITS

- Pre-measured kit of resin, hardener and "non-dusting" aggregate and mixing bucket for ease of use.
- Insensitive to moisture before, during and after cure.
- Unique low modulus of elasticity.
- High early strength gain.

RESIN PROPERTIES

Type: Moisture Insensitive & Low Temperature Cure
Lo-Modulus Epoxy Binder System

Mixing Ratio: 1A to 1B by volume

Color: Part A Resin Gray
Part B Hardener Amber
Part C Aggregate Tan

MIXED: Light Gray

Viscosity (ASTM C-881): Approx. 1,700 cps

Pot Life: Approx. 20-30 min

MORTAR PROPERTIES

Application Life: Approx. 30 min

Initial Cure Time @ 75° F*: 3-4 hrs

Tensile Strength (ASTM C-307): 1,250 psi

Tensile Strength (ASTM C-638): 2,700 psi

Tensile Elongation (ASTM D-638): 45%

Flexural Strength (ASTM C-580): 3,600 psi

Water Absorption, 24 hrs (ASTM D-570): <.5%

Hardness (ASTM D-2240): 85 min

Shrinkage (ASTM C-883): Pass

Thermal Capability (ASTM C-884): Pass

Effective Shrinkage (ASTM C-883): Pass

Adhesion to Concrete (ACI 503R-30): Concrete Failure

Compressive Strength (ASTM C-109 mod.):

@ 75°F* @ 40°F*

4 hrs 1,400

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3 days	9,400	6,800
7 days	9,800	8,000
*Ambient Temperature		

SURFACE PREPARATION

Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and must be clean of grease, oils, coatings, curing compounds, impregnations, waxes, laitance, dust, and other contaminants. Remove defective concrete, honeycombs, cavities, joint cracks, voids and other defects by routing to sound material. For areas subject to heavy traffic it is recommended that the edges of to be patched be vertical, chipped or steep angel cut. Standard construction details should be followed for repairs around floor drains, joints, etc. Abrade surfaces to be repaired to obtain a proper profile for good adhesion. Clean exposed steel and reinforcing. Makes sure all dust and debris are removed. It may be dry or damp, but free of standing water. Preparation work: Concrete - Sandblast or use other approved mechanical methods. Steel - Sandblast to white-metal finish.

MIXING INSTRUCTIONS

Pre-measured Kit: Material must be conditioned at 70°F for at least 24 hours prior to application. Remove all contents from the MASCOFLEX FASTPATCH Kit. Pre-mix can containing Part A (Base) and Part B (Hardener) separately. Place in a clean 5 gallon mixing bucket the entire contents of both Part A and Part B. Container should have a flat wall and flat bottom. MIX THOROUGHLY for 3 minutes with a paddle on a slow speed drill (400 or 600 rpm). Scrape the sides and bottom of bucket thoroughly while mixing. Slowly add Part C (Aggregate) to the premixed resins to blend thoroughly to a uniform consistency. Amount of aggregate may vary upon conditions. BE SURE TO MIX THE RESINS TOGETHER FIRST BEFORE ADDING THE AGGREGATE. Mix only the amount that can be used within the working life of the product.

The importance of thorough mix and blending cannot be over emphasized. The two components must be thoroughly mixed and mated. Do not whip or aerate while mixing. Improper mixing can result in soft or sticky spots.

Bulk: Mix Components A and B as above, then slowly add dry Component C (AGGREGATE) to pre-mixed binder and mix to obtain a uniform consistency. Amount of aggregate may vary upon conditions. Recommended maximum aggregate is 4 volumes of aggregate to 1 volume of mixed binder.

APPLICATION TECHNIQUES

Priming: MIXED MATERIAL MUST BE SCRUBBED into concrete surface to be repaired. Alternate priming technique is to apply premixed neat MASCOBOND LO-MOD. Apply with stiff brush and work into surface. Apply epoxy mortar while epoxy is still

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tacky (usually within 15 minutes 75°F).

Mortar: Apply epoxy repair material immediately after mixing with a trowel or screed. Trowel the material against the edge and gradually work toward the center of the repair area. Wipe trowel lightly with a damp rag with water or solvent for a smooth finish.

COVERAGE

1 unit will yield approximately .40 cubic foot or 690 cubic inches. Applied at 1/4" thickness, one kit will cover approximately 18-20 square feet.

COMPLIANCE

MASCOFLEX FASTPATCH conforms to ASTM C-881-90 Type III, Grade 1 Class A & B for epoxy resin systems.

TEMPERATURES

Will cure at temperatures as low as 40°F, providing the temperature will be 40°F and rising during the next 72 hours. Epoxy materials and aggregate should be stored at least 24 hours prior to use at 70°F, or higher. Epoxies stored below 60°F will cause the epoxy to thicken substantially, making it difficult to properly blend the two materials and obtain a proper mating of resin and hardener. PROTECT FROM INCLEMENT WEATHER AND FREEZING. If product temperature falls below 50°F, it is recommended that a product temperature of 70°F be obtained prior to using.

CAUTIONS

Minimum application temperature 40°F. Minimum age of concrete must be 21-28 days depending on curing and drying conditions. Test for moisture vapor transmission prior to application. Moisture passing through the substrate by pressure during the application and after curing of epoxy will cause bond failures. Material is a vapor barrier after cure. For application on exterior, on-grade substrates, consult Technical Service. For spray application, consult Technical Service. Do not thin with solvent. Solvent will prevent proper cure. Use only oven dry aggregate. For multiple lifts consult Technical Services. Ultraviolet light can discolor MASCOFLEX FASTPATCH. Not for injection of cracks under hydrostatic pressure. Do not inject cracks greater than 1/4 in. without consulting Technical Service. Due to many variables in bonding to damp surfaces, be certain to test application under the same conditions as the full-scale work. If material is exposed to severe chemical attack, contact technical services for a recommendation on a chemical resistant coating.

PACKAGING

.40 cubic foot kit. Bulk units available upon request.

SHELF LIFE

2 years, unopened, protected storage.

HAZARDS IDENTIFICATION

Component "A" (Irritant): Contains epoxy resin. Vapors can cause respiratory irritation. Prolonged contact with skin may cause irritation. Use of safety goggles and chemical resistant gloves is recommended. Use only with adequate ventilation.

Component "B" (Corrosive): Contains amines. Contact with skin may cause severe burns. Avoid skin contact. Product is a

strong sensitizer. Use of safety goggles and chemical-resistant gloves recommended. Avoid breathing vapors. Use adequate ventilation. Use of a NIOSH/MSHA organic vapor respirator recommended if ventilation is inadequate.

Component "C" (Silica): Contains free silica. Do not breathe dust. May cause delayed lung injury (Silicosis). I.A.R.C. reports there is limited evidence that crystalline silica may cause cancer in humans. Avoid breathing dust. Avoid eye contact. Provide adequate ventilation and dust control. For sand in eyes wash immediately with water. If irritation persists seek medical attention.

FIRST AID

Remove contaminated clothing. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician immediately. For respiratory problems, remove person to fresh air. For skin contact, remove epoxy immediately with a dry cloth or paper towel. Wash area of contact thoroughly with soap and water. Solvents should not be used because they carry the irritant into the skin. Wash contaminated clothing before re-use. Cured epoxy resins are innocuous.

CLEANUP INSTRUCTIONS

Ventilate area. Confine spill. Collect with absorbent material, flush area with water. Dispose of in accordance with current applicable local, state and federal regulations. Uncured material can be removed with an approved solvent. Cured material can only be removed mechanically.

TECHNICAL SERVICE

For application procedures or surface conditions not specified above, please contact:

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