

# MASTERPATCH® 95

*Metallic aggregate, epoxy repair mortar*

## DESCRIPTION:

MASTERPATCH® 95 is a three part, metallic aggregate, epoxy repair mortar designed for heavy-duty applications. It utilizes a 100% reactive, modified aliphatic amine hardener and an unmodified liquid epoxy resin-based material in combination with specially processed and graded metallic aggregate to provide durable repairs.

## RECOMMENDED FOR:

- Repair of worn or spalled concrete floor joints
- Filling saw-cut control joints in heavy-duty, indoor floors<sup>1</sup>
- Repair of spalled or worn areas in industrial concrete floors
- Rapid repairs requiring high strength for heavy-duty service conditions

<sup>1</sup>Floors should be cured a minimum of 60 days prior to filling.

## FEATURES/BENEFITS:

- Excellent bond to base concrete
- Thin repairs can be made on clean, sound concrete to create a smooth surface
- Featheredging capability while providing long-lasting repairs
- Resistant to oil and grease penetration
- Very little downtime required-approximately 4 to 6 hours after installation at 70 °F (21 °C)

## PACKAGING/ESTIMATING:

A unit of MASTERPATCH 95 mortar is packaged in a 3-1/2 U.S. gal (13 L) plastic pail. The Resin (Part A) and the Hardener (Part B) are in metal cans and the metallic aggregate is in a plastic bag. The 3-1/2 gal (13 L) pail is provided for convenient mixing of the three components.

### Container Contents

Resin (Part A):	0.41 U.S. gal (1.6 L)
Hardener (Part B):	0.24 U.S. gal (0.9 L)
Metallic Aggregate (Part C):	24 lb (10.9 kg)

One unit of MASTERPATCH 95 mortar will yield approximately 0.21 ft<sup>3</sup> (0.0059 m<sup>3</sup>). The coverage rate is approximately 10 ft<sup>2</sup> (0.9 m<sup>2</sup>) at a thickness of 1/4 in. (6.4 mm).

## PERFORMANCE DATA:

### Compressive Strengths

[2 in. (50 mm) cubes cured at 70 °F (21 °C)]

12 hour	3,900 psi (27 MPa)
24 hour	5,900 psi (41 MPa)
7 day	7,000 psi (48 MPa)
28 day	7,600 psi (52 MPa)

### Tensile Strength

(ASTM C 307)

7 day	1,800 psi (12 MPa)
28 day	1,900 psi (13 MPa)

### Flexural Strength

7 day	3,600 psi (25 MPa)
28 day	3,800 psi (26 MPa)

### Shear Bond

(ASTM D 882)

7 day	2,400 psi (17 MPa)
28 day	2,400 psi (17 MPa)

### Chemical Resistance

Laboratory and field testing indicate Good or Excellent resistance to the following:

Aromatic Solvents	Ethylene Glycol
Gasoline	Calcium Chloride
Butyl Cellosolve	Sodium Chloride
Ethanol	Potassium Hydroxide (10%)
Motor Oil	Sodium Hydroxide (50%)
Brake Fluid	Ammonium Hydroxide (25%)

**Color** (mixed) Black

**Pot Life** [mixed material @ 70 °F (21 °C)] 45 minutes

**Shelf Life** 18 months (minimum)

*The following information regarding surface preparation, mixing, application and curing is provided as a brief overview. For detailed instructions before use of this product, reference the MASTERPATCH 95 product packaging.*

## SURFACE PREPARATION:

New concrete must be fully cured (28 day minimum). Remove grease, wax, oil contaminants and curing compounds by scrubbing with an industrial grade detergent or a degreasing compound, then follow with mechanical cleaning. Remove weak, contaminated or deteriorated concrete by shotblasting, bushhammering, gritblasting, scarifying or other suitable mechanical means. Follow mechanical cleaning with vacuum cleaning.

## MIXING

**Note:** The following mixing instructions should be accomplished using an efficient paint mixer or other heavy-duty mechanical device. The 3-1/2 U.S. gal (13 L) pail should be used as the mixing container. **Mix thoroughly.**

Pour all of Part B into all of Part A and mix thoroughly, then add the metallic aggregate and mix all three components to achieve an easily trowelable mortar.

## APPLICATION:

The repair area should be sound and dry, and free from oil or dust. Place MASTERPATCH 95 into the repair area and level with a trowel. (Keeping the trowel wet with soap and water will reduce stickiness and make troweling easier.) Allow the patch to self-level and stiffen. At a temperature of 70 °F (21 °C), finishing can occur up to approximately 30 to 45 minutes after mixing.

## CURING:

Because MASTERPATCH 95 is an epoxy repair mortar, wet or membrane curing is **neither** required nor recommended. Air cure only.

## CLEANUP:

Mixed epoxy is much easier to clean up before it hardens. Suitable solvents for this purpose are acetone or methyl ethyl ketone (both flammable), and 1,1,1 - trichloroethane or methylene chloride (both non-flammable). Commercial epoxy/paint stripper solvents are recommended for hardened epoxy. Consult solvent manufacturer's usage recommendations.

## LIMITATIONS:

- Ambient temperatures should be as close to 70 °F (21 °C) as possible.
- For best results, do not apply this product at ambient or floor temperatures below 60 °F (16 °C) or above 90 °F (32 °C).

- The Hardener (Part B) of MASTERPATCH 95 mortar is classified as a corrosive material. See the Material Safety Data Sheet (MSDS) or product packaging.
- Do not add water or solvents to any component.
- Do not alter mixing proportions.
- Always mix the Resin and Hardener together before adding the Aggregate.
- Do not use-
  - Where repairs will later be exposed to ambient temperatures below 20°F (-7 °C) or higher than 120 °F (49 °C).
  - Where there is constant exposure to materials which rapidly attack epoxy resins and/or iron (e.g. acids).
  - Where a dark-colored patch would be objectionable.
- This product should be used by qualified personnel for recommended application in accordance with the previously described procedures.
- Components may be flammable or combustible, therefore extinguish open flames in the area prior to use. Ensure adequate ventilation to keep vapors below threshold. For details regarding personnel protective equipment and first aid, refer to the product Material Safety Data Sheet (MSDS).

## RELATED BULLETINS:

Material Safety Data Sheet — MASTERPATCH 95

### Master Builders, Inc. United States

23700 Chagrin Boulevard  
Cleveland, Ohio 44122-5554  
(800) MBT-9990  
Fax (216) 831-6910

### Canada

3637 Weston Road  
Toronto, Ontario M9L 1W1  
(800) 387-5862  
Fax (416) 741-7925

### Mexico

Blvd. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, México  
011-525-557-5544  
Fax 011-525-395-7903