



MM[®] High Strength Epoxy

100% Solids V.O.C. Compliant

SPECIALTY ADHESIVES
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DESCRIPTION

MM High Strength Epoxy Adhesive is a 100% solids, two component, equal volume mix, aggregate filled epoxy mortar. MM High Strength Epoxy Adhesive is a non-sag gel with excellent adhesion, physical properties, and ease of use as a versatile, general purpose adhesive mortar that can even be placed on vertical and overhead surfaces.

BASIC USE

MM High Strength Epoxy Adhesive has been specifically formulated to bond elastoprene rubber (in conjunction with Elastobond Activator) and foam rubber to concrete surfaces. Many MM expansion joint systems utilize the MM High Strength Epoxy Adhesive as one of its primary components.

ADDITIONAL USES

MM High Strength Epoxy Adhesive can be used for general repair and maintenance. Filler for cracks voids and other defects in concrete and other masonry surfaces. Forming coves at juncture of floor and walls in below grade waterproofing. Adhesive for setting dowels bolts and rebar.

FEATURES

- Easy to use 1:1 by volume mix ratio.
- Color coded (black & white components) to insure thorough (uniform grey) mixing.
- 100% solids, conforms to VOC regulations.
- Moisture insensitive.
- Non-shrinking
- Tenacious thixotropic high strength bond to concrete, aluminum and steel.

LIMITATIONS

- Surrounding substrate of concrete structural joint opening must be sound, dry, and free of any laitance, curing agents or foreign matter.
- Installation temperature must be 40°F and rising.
- Do not install in latex modified mortar or concrete.
- Must be used with MM Elastobond Activator when bonding elastoprene rubber to concrete.



PACKAGING

MM High Strength Epoxy Adhesive is supplied in "Easy-mix" Part A & Part B one quart plastic containers. Pre-measured packaging of 1 part black + 1 part white = 1/2-gallon unit. Thoroughly mixing the Part A & B Components produces a uniform grey color that insures consistent field performance. 1 cardboard case contains 12 quarts (6 units)

STORAGE

All materials should be stored in a cool, dry location 60-80°F (15-27°C) prior to use.

PRECAUTIONS

For Professional Use Only.

Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact with epoxy adhesive. Use with adequate ventilation. In case of eye contact, immediately flush (low pressure) with lukewarm water. In case of skin contact, immediately wash skin with soap and water. If swallowed, do not induce vomiting. Drink several glasses of water and call physician or poison control center. Epoxy systems can cause delayed dermatitis. Read and follow labels and Material Safety Data Sheet before use.

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PHYSICAL PROPERTIES

High Strength Epoxy Physical Property	Test Method	Typical Value
Tensile strength	ASTM D638	1800 psi
Tensile elongation	ASTM D638	2-4%
Compressive Strength	ASTM D695	7000 psi
Hardness, Shore D	ASTM D2240	75 +/-5
Pot Life, @ 25°C (77°F)		40 minutes
Initial Cure / Complete Cure		24 hrs. / 7 days
Coverage		115.5 cu. In. per ½ gallon unit
Shelf Life		2 Years

DISCLAIMER:

All recommendations, technical data and test data contained in this data sheet are based upon the results of controlled laboratory tests or in actual field tests. However, MM Systems Corporation makes no warranty of any kind concerning this data. Due to variance in storage, handling and application to these materials, MM Systems Corporation accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their project specific requirements.

SURFACE PREPARATION

Surface must be clean and free of any dust, oil, grease, laitance, curing compounds or any other contaminants. This should be achieved by sand blasting, water blasting or some other mechanical means. New concrete surfaces may be acid etched with muriatic acid and rinsed thoroughly. The surface must be dry and free of standing water.

MIXING INSTRUCTIONS

Stir both A & B components before mixing together. Mix pre-measured equal volumes of Part A and Part B. Mix thoroughly with a heavy duty drill fitted with a mixing paddle at low speed. Mix until a uniform gray color with no streaks is evident. Be sure to scrape the sides and bottom of the mixing pail. Do not mix more material than can be used in 40 minutes.



APPLICATION INSTRUCTIONS

1. Apply mixed epoxy by trowel, spatula or putty knife.
2. When used as adhesive, cover both the concrete surface and the rubber seal sidewall and then bring both into direct contact. Remove excess epoxy before curing.
3. When used as a mortar on vertical and overhead patches, limit depth of patch to ½ to 1" to prevent sagging. Allow first layer to set before applying additional material.
4. When used on horizontal substrates fill holes up to 4" deep in one layer. Avoid feather-edging. For proper finish, keep finishing tools (margin trowel, putty knife, etc.) clean with mineral spirits.
5. Clean tools and equipment immediately with a suitable solvent such as xylene or lacquer thinner.

LIMITED WARRANTY

MM Systems warrants its High Strength Epoxy to be free of defects in material and conform to technical data listed. Since methods of application can affect performance and on site conditions are beyond our control, MM Systems makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MM Systems sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of system proved to be defective. In no event shall MM Systems be liable for any special, incidental, consequential, loss of profits or punitive damages. Other warranties may be available when installed by a MM Systems Certified Contractor.

MM Systems reserves the right to amend or withdraw information contained herein, without notice, and will not be liable for any inaccuracy or ambiguity of said information.

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