

EPOXY MORTAR PATCH™ TECHNICAL DATA

Concrete Patch and Repair Epoxy

**Mix-With-Sand
Concrete Repair Epoxy**

**Easy 2:1 Mix Ratio
Works Underwater
Fast Setting
Economical**

DESCRIPTION	Epoxy Mortar Patch™ is a two component, 100% solids pourable epoxy. This product is recommended for repairing defects in concrete, cement or masonry products by mixing with sand to form a "epoxy mortar". Can be used on wet or submerged surfaces.
COVERAGE	A kit contains 340 cubic inches of epoxy. The addition of sand (approximately 10 pounds per gallon of epoxy) will increase volume approximately 70%. Recommended film thickness - variable
PHYSICAL PROPERTIES	<p>COLOR Brown color when mixed VISCOSITY 187,000 cps (typical) MIX RATIO. 2:1 Part A to Part B (by volume), 1:0.55 by weight FLEXURAL STRENGTH 4,960 psi @ ASTM D790 COMPRESSIVE STRENGTH 9,440 psi @ ASTM D695 TENSILE STRENGTH 4,114 psi @ ASTM D638 ULTIMATE ELONGATION 3.1% GARDNER VARIABLE IMPACTOR 50 inch pounds direct - passed SHRINKAGE Negligible due to 100% solids formulation ADHESION 395 psi @ elcometer (concrete failure, no delamination) HARDNESS Shore D = 83 HEAT DEFLECTION TEMP. 59.4°C, ASTM D648, 1/2" x 1/2" bar, span 4" APPLICATION TEMP. 50-80°F PRIMER None necessary TOPCOAT None necessary SOLIDS BY WEIGHT 100% SOLIDS BY VOLUME 100%</p>
CHEMICAL RESISTANCE	<p>REAGENT RATING</p> <p>butanol C xylene C 1,1,1 trichloroethane C MEK A methanol A ethyl alcohol C skydrol B 10% sodium hydroxide D 50% sodium hydroxide C 10% sulfuric acid C 70% sulfuric acid A 10% HCl (ng) C 5% acetic acid B</p> <p>Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.</p>

SOLVENT-FREE COATINGS FOR TOUGH ENVIRONMENTS

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CURE SCHEDULE	<p>Pot Life 25 minutes @ 75°F (6 oz. vol.); 12 minutes @ 75°F (full kit vol.) addition of sand will extend potlife and cure times</p> <p>Hard 3-5 hours @ 75°F</p> <p>Traffic Approximately 1 day @ 75°F</p> <p>Temperature will exert a considerable influence on the rate of curing of chemically cured coatings such as Epoxy Mortar Patch epoxy. In broad terms expect each 10°C, (18°F), rise or fall in temperature to half or double dry times and pot lives.</p>
STORAGE	<p>Store product at normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures or temperature fluctuations may cause crystallization.</p>
SURFACE PREPARATION	<p>All dirt, foreign contaminants, oil and laitance must be removed to the substrate. However, this product can successfully be applied to damp, wet or even underwater substrates.</p>
APPLICATION	<p>Epoxy Mortar Patch has a mix ratio of two parts A to one part B by volume (1 to 0.55 by weight). After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Make sure to scrape the sides and bottom of the mixing container thoroughly when mixing. Add sand to mixed epoxy (optional). Water will not impede the curing for this product. Improper mixing may result in product failure.</p> <p>The mixed material can be applied by pouring the mixed material directly into the crevice to be repaired. Remove any excess material with a putty knife or similar tool when not underwater. If applying the material underwater, then remove any excess with a scraper type tool after it has partially set up and tacked off. When applying this material underwater, make sure that the material displaces all water beneath the application to assure contact with the substrates which will create a proper bond. The density of the material is greater than that of water and should force out the water when poured into the expansion joint. This product is not intended for small type hairline cracks.</p> <p>This product can be applied in successive applications. Top coating with other products are normally not performed underwater. Always remember that colder temperatures will require more cure time for the product before recoating can commence.</p>
LIMITATIONS	<p>Restrict the use of the area to light traffic and non-harsh chemicals until the material is fully cured. Color stability may be affected by environmental conditions such as immersion service, temperature or chemical exposure.</p> <p>Colors may vary from batch to batch.</p> <p>All new concrete must be cured for at least 30 days prior to application.</p> <p>When applying the material underwater or over existing ponded water, we recommend a test patch prior to commencing the job to check adhesion characteristics.</p> <p>Product is not UV color stable and may also discolor if exposed to some indoor lighting such as sodium vapor lights.</p> <p>Physical properties are typical values and not specifications.</p>
TRANSPORT	<p>Part A - Non regulated</p> <p>Part B - Regulated by USDOT, IATA & IMO. Corrosive Liquid N.O.S., UN 1760, Packing Group III, Class 8</p>

SAFETY: This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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