**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 | 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% |
| CHEMICAL RESISTANCE | REAGENT ............................... RATING  
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  
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. |
**Epoxy Mortar Patch™ TECHNICAL DATA**

| CURE SCHEDULE | Pot Life: 25 minutes @ 75°F (6 oz. vol.); 12 minutes @ 75°F (full kit vol.)
addition of sand will extend pot life and cure times
Hard: 3-5 hours @ 75°F
Traffic: Approximately 1 day @ 75°F
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. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>STORAGE</td>
<td>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.</td>
</tr>
<tr>
<td>SURFACE PREPARATION</td>
<td>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.</td>
</tr>
</tbody>
</table>
| APPLICATION | 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.

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.

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. |
| LIMITATIONS | 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.
Colors may vary from batch to batch.
All new concrete must be cured for at least 30 days prior to application.
When applying the material underwater or over existing ponded water, we recommend a test patch prior to commencing the job to check adhesion characteristics.
Product is not UV color stable and may also discolor if exposed to some indoor lighting such as sodium vapor lights.
Physical properties are typical values and not specifications. |
| TRANSPORT | Part A - Non regulated
Part B - Regulated by USDOT, IATA & IMO. Corrosive Liquid N.O.S., UN 1760, Packing Group III, Class 8 |

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

**WARRANTY DISCLAIMER:** The technical data given herein has been compiled for your help and guidance and is based upon our experience and knowledge. However, as we have no control over the use to which this information is put, no warranty, express or implied is intended or given except that these goods shall be of merchantable quality and buyer assumes all risk and liability for results obtained by the use of the materials covered in this data sheet, whether used singly or in combination with other products. We assume no responsibility whatsoever for coverage, performance or damages, including injuries resulting from use of this information or of products recommended herein. The sale and use of this product is governed by Progressive Products, Inc.’s Warranty Disclaimer and Return Policy.

**Manufactured by:**
NPI in PA

**Distributed by:**
Progressive Epoxy Polymers, Inc.
48 Wildwood Dr.
Pittsfield, NH 03263-3406

Tel: 603-435-7199
Fax: 603-435-7182
www.epoxyproducts.com
info@epoxyproducts.com