



TECHNICAL DATA SHEET

DURALFLEX® FASTPATCH

Fast Setting, Low Modulus Epoxy Repair Kit

03930

CONCRETE REHABILITATION
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TAMMS INDUSTRIES
NOVEMBER 2003 (Replaces 3/02)

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1. **DESCRIPTION:** DURALFLEX FASTPATCH is a three component, 100% solids, low modulus, moisture insensitive, epoxy repair kit.

FEATURES AND BENEFITS

- *Ease of use*
- *No measuring of components*
- *Pre-measured resin, hardener and specially blended "non-dusting" aggregate*
- *Low modulus resin binder used for stress relief and resistance to impact*
- *Resistant to thermal and mechanical movements*
- *Rapid cure, minimizes down-times.*
- *May be applied as low as 40°F*

APPLICATIONS

Repair interior or exterior, horizontal concrete surfaces such as:

- *Warehouse floors*
- *Loading docks*
- *Parking decks and ramps*
- *Bridge decks and nosings*
- *Balconies*
- *Mechanical rooms*
- *Food storage areas*
- *Runways*

2. **COMPLIANCE:** The resin binder portion of DURALFLEX FASTPATCH complies with ASTM C881 Type III, Grade 1, Class A & B.

3. **SURFACE PREPARATION:** Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and clean of grease, oils, coatings, dust and other contaminants. Remove defective concrete, honeycombs, cavities, voids and other defects by routing to sound material. For patching in areas subject to heavy traffic it is recommended that the edges of the area to be patched be vertical, chipped or steep angle 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. Remove all dust and debris.

4. **MIXING INSTRUCTIONS:** Remove the contents from the DURALFLEX FASTPATCH KIT. Premix can containing Part A (base) and Part B (hardener) separately. Pour the entire contents of Part A and Part B into the 5 gallon bucket. Mix thoroughly using a slow speed 1/2 inch drill and a "Jiffy" mixer. Mix for a minimum of 3 minutes. Make sure to scrape the bottom and sides of mixing container while mixing. Do not whip or aerate while mixing. Gradually add the supplied aggregate to premixed liquids and blend thoroughly. **BE SURE TO MIX THE LIQUIDS TOGETHER BEFORE ADDING THE AGGREGATE.**

5. **APPLICATION TECHNIQUES:** For best results condition the DURALFLEX FASTPATCH at 75°F for at least 24 hours prior to application. Apply epoxy repair kit immediately after mixing with a trowel or screed. Material should be scrubbed into the surface for best adhesion. Trowel the material against the edge and gradually work toward the center of the repair area. Immediately after the mortar has been placed, aggregate can be broadcast into the wet resin to provide a more textured finish.

6. **COVERAGE:** One kit of DURALFLEX FASTPATCH will yield approximately 0.4 cubic feet. Applied at 1/4 inch thickness, one kit will cover approximately 18-20 square feet.

MATERIAL PROPERTIES @ 75°F.

| | | |
|---------------------------------|------------------|-------------|
| Pot Life, kit, minutes | 20-30 | |
| Initial Cure, 1/2" thick, hours | 3-4 | |
| ASTM D638: | | |
| Tensile Strength, psi | 2,700 | |
| Tensile Elongation, % | 45 | |
| ASTM C307: | | |
| Tensile Strength, psi | 1,250 | |
| ASTM C109 (modified): | | |
| Compressive Strength, psi | 75°F | 40°F |
| 3 hours | 1,400 | --- |
| 18 hours | 7,000 | 4,000 |
| 3 days | 9,400 | 6,800 |
| 7 days | 9,800 | 8,000 |
| ASTM C580: | | |
| Flexural Strength, psi | 3,600 | |
| ASTM D2240: | | |
| Hardness, Shore D, minimum | 85 | |
| ASTM D570: | | |
| Water Absorption, 24 hours, % | <0.5 | |
| ASTM C884: | | |
| Thermal Compatibility | Passes | |
| ASTM C883: | | |
| Effective Shrinkage | Passes | |
| ACI Method 503R-30: | | |
| Adhesion to Concrete | Concrete failure | |

Data presented are typical laboratory values.

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7. **CLEAN-UP INSTRUCTIONS:** Clean tools and application equipment immediately after use with methyl ethyl ketone or xylene. Clean spills or drips while still wet with same solvent. Dried DURALFLEX FAST-PATCH will require mechanical abrasion for removal.

8. **PACKAGING:** Premeasured components of Part A (Base), Part B (Hardener) and Part C (aggregate) contained in a 5 gallon plastic bucket. One kit yields 0.4 cubic feet.

Storage: 40 - 90°F, protect from moisture.

Shelf life: Two years in original container and properly stored.

9. **CAUTIONS:** Do not apply at application temperatures below 40°F. The materials should be conditioned at 75°F when used for low temperature applications. This material should not be exposed to water during initial cure. If it is to be exposed to severe chemical abuse, the patched area should be top coated with a Tamms chemical resistant coating. Do not aerate during mixing.

10. **ENVIRONMENTAL AND SAFETY PRECAUTIONS:**

Component "A": Contains epoxy resin. Vapors can cause respiratory irritation. Skin and eye irritant. Can cause sensitization after prolonged or repeated exposure. Use of safety goggles and chemical resistant gloves is recommended. Use only with adequate ventilation.

Component "B": Is corrosive. Contains amines. Contact with eyes or skin may cause severe burns. Can cause sensitization after prolonged or repeated use. Use of safety goggles and chemical resistant gloves is highly recommended. Use only with adequate ventilation.

Component "C": Contains free silica. Do not breathe dust. May cause delayed lung injury (Silicosis). I.A.R.C. reports there is 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: In case of skin contact, wash immediately and thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Consult physician immediately. For respiratory problems, remove person to fresh air.

Disposal: Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations.

READ MATERIAL SAFETY DATA SHEET BEFORE USING. **FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE: 1-800-862-2667 (TAMMS), 1-800-424-9300 (CHEMTREC).

11. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

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