



# FLEXPAVE

## *Flexible, Polymer Modified Cementitious Mortar for Thin Repairs*

### 1. Product Description

a. **Basic Use:** Flexpave is a flexible, fiber reinforced, latex modified concrete repair mortar for patching or resurfacing both horizontal and vertical surfaces. It is used as a trowel-applied material and is suitable for both indoor and outdoor applications. Flexpave can be used from featheredge to 1/4 in. (6 mm) thicknesses.

b. **Features/Benefits:**

- Fibers and unique polymer provide excellent flexibility to allow for movement of repair mortar.
- Flexible mortar is excellent for small patches.
- Outstanding freeze/thaw resistance.
- Flexibilized concrete repair mortar may be applied over cracked concrete.
- Fiber and latex reinforcement adds resilience - improves impact resistance and prevents shattering and dusting.
- May be used indoors or out, above or below grade, under wet or dry exposure.
- Fills voids and smooths all concrete surfaces to provide a durable concrete repair.
- Self bonding - no extra bonding material required.
- Can be applied thick or thin, from feather edge up to 1/4 in. (6 mm).
- High density resists penetration of salt solutions and other liquid chemicals that attack and corrode concrete.
- Concrete gray color. May be painted over if desired.

c. **Typical Applications:** Concrete driveways and sidewalks, ramps, steps, curbs, gutters, floors, marine structures. Flexpave is excellent for most horizontal and vertical concrete surfaces.

d. **Limitations:** Flexpave should not be used at temperatures below 40°F (4°C). Flexpave is not designed for used as a heavy duty wearing surface.

e. **Composition:** Flexpave is a one-part system consisting of a special blend of a cement/aggregate powder with specialty polymer chemical additives.

f. **Color/Appearance:** Flexpave is formulated to a concrete gray color and looks similar to plain concrete after curing.

### 2. Packaging

Flexpave is available in two standard units:

<i>Unit</i>	<i>Shipping Wt.</i>
<i>50-lb. (22.7 Kg) bag</i>	<i>51 lbs. (23.1 Kg)</i>
<i>50-lb. (22.7 Kg) pail</i>	<i>53 lbs. (23.6 Kg)</i>

### 3. Estimating/Yield

One unit of Flexpave yields 0.45 cu. ft. (0.013 cu. m). It will cover 22 sq. ft. (2.0 sq. m) at 1/4 in. (6 mm) thickness.

### 4. Technical Data

a. **Applicable Standards:** ASTM C 1059, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete (Type II, non-re-emulsifiable).

b. **Compressive Strength:** ASTM C 109, 2 in. (50 mm) cubes.

<i>Age</i>	<i>Strength</i>
<i>1 day</i>	<i>400 psi (2.8 MPa)</i>
<i>3 days</i>	<i>900 psi (6.2 MPa)</i>
<i>7 days</i>	<i>1,500 psi (10.3 MPa)</i>
<i>28 days</i>	<i>2,100 psi (14.5 MPa)</i>

c. **Flexural Strength:** ASTM C 78, 28 days; 400 psi (2.8 MPa).

d. **Bond Strength:** ASTM C 1042, 28 days; 550 psi (3.8 MPa).

### 5. Directions for Use

a. **Preparation:** Base concrete must be sound and clean. Chip, bushhammer, scabble, chisel, shotblast, or mill damaged surface down to sound concrete. Any oil soaked concrete must be removed. Blow off any loose dust, dirt, and debris. Provide a clean, textured surface free of paint, coatings, or curing compounds. Avoid application over extremely hard-troweled concrete.

b. **Bonding:** The base concrete surface must be pre-wetted to the extent that moisture is not rapidly removed from the Flexpave mortar. Remove any free-standing water. Brush in a loose mixture of Flexpave as a bonding agent. Do not allow bond coat to dry out prior to mortar application.

c. **Mixing:** Mix one unit at a time using a mechanical drill and mixing blade along with a 5-gal. (18.9 liter) pail. Pour 0.9 gal. (3.4 liter) of water into the pail first and then add the dry powder. Mix for 2 to 3 minutes to achieve a uniform consistency. Workability can be adjusted by varying the water content. Featherpave can also be mixed a few pounds (kilograms) at a time for smaller jobs.

d. **Placement:** Trowel mixed mortar onto repair area to desired thickness.

e. **Finishing:** With proper timing, virtually any surface texture can be achieved - trowel, broom or float. The finish chosen should reflect probable use in service.

f. **Protection:** On hot or windy days, Flexpave can dry quickly. Protect the area with wet burlap, polyethylene, or a mist of water to prevent cosmetic plastic shrinkage cracking on the surface.

g. **Curing:** Flexpave is a self-curing system requiring no separate curing compound. However, on hot or windy days, hold the moisture in the patch for 4 to 6 hours using wet burlap or polyethylene for best results.

h. **Maintenance:** Flexpave is designed to be free of maintenance. Standard concrete sealers, paints, or coatings may be applied to Flexpave surfaces.

## 6. Availability

Flexpave is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

## 7. Warranty

Flexpave is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

## 8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



***Metalcrete Industries***

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