



# FLOWPAVE

## *Self Leveling Floor Underlayment*

### 1. Product Description

a. **Basic Use:** Flowpave is a one-part, latex-modified compound designed to be installed at a self-leveling consistency. It is mixed only with water and can be pumped or poured into place. Flowpave can be used over concrete, wood, or mastic adhesives. It provides a smooth, level underlayment for tile, carpet, or resilient floor coverings.

b. **Features/Benefits:**

- Easy to use, one-part system.
- Bonds tenaciously to concrete without a bonding agent.
- Levels and smooths uneven or damaged floor surfaces.
- Covers large areas quickly and easily.
- Good at thicknesses from 1/16 in. (1.6 mm) to 1 in. (25.4 mm).
- Repairs new construction tolerance problems or rehabs old floors.

c. **Typical Applications:** Concrete floors and decks, wood floors, floors with mastic, building rehabilitation, office buildings.

d. **Limitations:** Do not use Flowpave outdoors or in areas that are continuously exposed to water. Use Flowpave Supreme under damp or wet conditions. Flowpave is intended to be used as an underlayment and should not be used as a wearing surface.

e. **Composition:** Flowpave is a mixture of cementitious components, latex, fine aggregate, and proprietary chemicals. Flowpave contains no calcium chloride.

f. **Color/Appearance:** Light gray and slightly lighter than plain concrete.

### 2. Packaging

Flowpave is packaged in 50-lb. (22.7 kg) bags, 60 bags per pallet.

### 3. Estimating/Yield

One bag of Flowpave is mixed with 1.75 gal. (6.6 liter) of water to produce 0.50 cu. ft. (0.014 cu. m) of self-leveling material.

The coverage is 24 sq. ft. (2.2 sq. m) at a 1/4 in. (6.4 mm) thickness.

### 4. Technical Data

a. **Applicable Standards:** ASTM C 1059, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete.

b. **Compressive Strength:** ASTM C 109, 2 in. (50 mm) cubes at 72°F (22°C).

<i>Age</i>	<i>Strength</i>
<i>3 hours</i>	<i>500 psi (3 MPa)</i>
<i>1 day</i>	<i>2,000 psi (14 MPa)</i>
<i>3 days</i>	<i>3,000 psi (21 MPa)</i>
<i>7 days</i>	<i>4,000 psi (28 MPa)</i>
<i>28 days</i>	<i>4,500 psi (31 MPa)</i>

c. **Bond Strength:** ASTM C 1042, 28 days; 1000 psi (7 MPa).

d. **Flexural Strength:** ASTM C 78, 28 days; 900 psi (6 MPa).

e. **Working Time:** 20 minutes.

f. **Final Set Time:** ASTM C 191; 45 minutes.

### 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. Float or broom finishes on new concrete provide a suitable bonding surface as long as they are clean and free of sealers.

b. **Bonding:**

- **Over Concrete:** The base concrete surface must be prewetted to prevent rapid moisture loss from Flowpave. Free-standing water must be removed. No separate bonding agent is required. (On questionable areas with possible contamination, Herculox should be applied as a bonding agent.)

- **Over Mastic:** Removal of old tile can leave hard to remove mastic adhesives. Remove all loose mastic and apply Herculox as a bonding agent.
- **Over Wood Floors:** Wood floors without deflection should be primed with Herculox. Areas of oil soaked wood should be removed, if possible. Oil soaked wood or floors with deflection should first be reinforced with metal lathe attached with studs to the wood flooring.

c. **Mixing:** Use a mechanical drill, Metco Jiffy mixing blade, and a 5-gal. (18.9 liter) pail for small jobs. Add 1.75 gal. (6.6 liter) of water to the pail and then add one bag of Flowpave. Mix for 2 to 3 minutes to a smooth lump-free consistency. Larger jobs can be done with a series of mixers and buckets by mixing two bags per batch. Large floor areas can be done with a continuous feed mixer/pump apparatus.

d. **Placement:** Pour or pump Flowpave onto floor area. Flow material to desired coverage and level. Break bubbles and smooth interfaces between adjacent pours using a spiked roller or long handled trowel. Complete operation within 15 to 20 minutes.

e. **Finishing:** No finishing is required or recommended. Attempts to finish will distort smoothness and levelness.

f. **Protection:** No special protection is needed. Under extremely low relative humidity conditions or in direct wind, surface checking may result. Under these conditions, mist lightly with Waterhold after setting.

g. **Curing:** Flowpave is self-curing.

h. **Maintenance:** Flowpave is normally covered with other floor coverings. It also may be sealed with an acrylic sealer or coated with an epoxy coating for very light duty service or foot traffic.

## 6. Availability

Flowpave 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

Flowpave 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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