



THINPAVE C1

One Part Acrylic Latex Modified Mortar for Thin Repairs

1. Product Description

a. **Basic Use:** Thinpave C1 is a latex modified concrete repair mortar for patching or resurfacing horizontal surfaces. It is used as a trowel-down material and is suitable for both indoor and outdoor applications. Thinpave C1 can be used from featheredge to 1/2 in. (12.7 mm) thicknesses.

b. **Features/Benefits:**

- Excellent for small patches or as an overlay material.
- Tough, strong, durable - compressive and flexural strength more than twice that of ordinary concrete.
- Universal - may be used indoors or out, above or below grade, under wet or dry exposure.
- Non dusting - does not release abrasive dust under traffic.
- Skidproof - can be float-finished to provide positive traction for trucks or safe footing for pedestrians.
- Self bonding - no extra bonding material required.
- Can be applied thick or thin, from feather edge up to 1/2 in. (12.7 mm).
- Latex reinforcement adds resilience - improves impact resistance and prevents shattering and dusting.
- High density resists penetration of salt solutions and other liquid chemicals that attack and corrode concrete.
- Excellent freeze/thaw resistance.
- Concrete gray color. May be painted over if desired.

c. **Typical Applications:** Parking decks, docks, ramps, steps, curbs, gutters, walkways, floors, marine structures. Thinpave C1 is excellent for all horizontal concrete surfaces.

d. **Limitations:** Thinpave C1 should not be used at temperatures below 40°F (4°C).

e. **Composition:** Thinpave C1 is a one-part system consisting of a special blend of a cement/aggregate powder with specialty chemical additives that is pre-mixed with an acrylic based latex admixture.

f. **Color/Appearance:** Thinpave C1 is formulated to a concrete gray color and looks similar to plain concrete after curing.

2. Packaging

Thinpave C1 is packaged in 50-lb. (22.7 Kg) units

3. Estimating/Yield

One unit of Thinpave C1 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. For extra deep patches or filler applications, Thinpave C1 may be extended with up to 20 lbs. (9.1 Kg) of clean, washed 3/8 in. (10 mm) pea gravel.

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>3,200 psi (22 MPa)</i>
<i>3 days</i>	<i>4,300 psi (30 MPa)</i>
<i>7 days</i>	<i>5,500 psi (38 MPa)</i>
<i>28 days</i>	<i>7,000 psi (48 MPa)</i>

c. **Flexural Strength:** ASTM C 78, 28 days; 1,500 psi (10 MPa).

d. **Bond Strength:** ASTM C 1042, 28 days; 1,450 psi (10 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 Thinpave C1 mortar. Remove any free-standing water. Brush in a loose mixture of Thinpave C1 as a bonding agent. Do not allow bond coat to dry out prior to mortar application.

c. **Mixing:** For small jobs, mix one unit at a time using a mechanical drill and Metco Jiffy mixing blade along with a 5-gal. (18.9 liter) pail. Pour water into 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 liquid. On large jobs, mix 2 or 3 units per batch, using a mortar mixer. (Note: For deep or filler repairs, up to 20 lbs. (9 Kg) of clean, washed 3/8 in. (10 mm) pea gravel may be added per unit)

d. **Placement:** Deposit mixed mortar onto repair area. Screed or trowel 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, Thinpave C1 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:** Thinpave C1 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:** Thinpave C1 is designed to be free of maintenance. Standard concrete sealers, paints, or coatings may be applied to Thinpave C1 surfaces.

6. Availability

Thinpave C1 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

Thinpave C1 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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