



SPEEDPAVE

Rapid Setting, High Early Strength Latex Patching Mortar

1. Product Description

a. Basic Use: Speedpave is a rapid setting, high-early, latex-modified patching mortar for repair of concrete slabs and pavements. It is a one-part system requiring only the addition of water for mixing. Speedpave is designed for thicknesses from 1/2 in. (12.7 mm) to 6 in. (152 mm). It is good for both indoor and outdoor use.

b. Features/Benefits:

- Rapid hardening for short downtime.
- Excellent bond to sound concrete.
- Open to foot traffic in 1 hour.
- Good resistance to freeze/thaw cycling and de-icing salts.
- Easy to mix and use.

c. Typical Applications: Pavements, parking decks, roads, bridges, expansion joint nosings and floors.

d. Limitations: Do not use as a general overlay material unless cold joints are acceptable. Do not use below 32°F (0°C).

e. Composition: Speedpave is a combination of hard, dense natural aggregate, specialty cements, and a proprietary chemical system.

f. Color/Appearance: Similar to plain concrete.

2. Packaging

Speedpave is packaged in 50-lb (22.7 Kg) bags, 60 bags per pallet. This product can also be packaged in 50-lb plastic pails for easier storage and mixing.

3. Estimating/Yield

One 50-lb. (22.7 Kg) bag of Speedpave yields 0.45 cu. ft. (0.01 cu. m) of patching mortar. At 1 in. (25.4 mm) thickness, one bag will cover 5 sq. ft. (0.46 sq. m). On deep repairs, Speedpave may be extended with up to 25 lbs. (11.3 Kg) of 3/8 in. (10 mm) pea gravel which will increase the yield to approximately 0.57 cu. ft. (0.016 cu. m).

4. Technical Data

a. Applicable Standards:

- ASTM C 928, Standard Specification for Packaged, Dry, Rapid Hardening Cementitious Materials for Concrete Repairs.
- 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 at 72°F (22°C).

Age	Strength
2 hours	3,000 psi (21 MPa)
1 day	4,500 psi (31 MPa)
3 days	6,000 psi (41 MPa)
28 days	9,500 psi (65 MPa)

c. Flow After 5 Minutes: ASTM C 109, 110%.

d. Length Change: In air after 28 days, - 0.10%.

e. Scaling: ASTM C 672 after 25 cycles, 0 visual rating.

f. Final Set: ASTM C 191, 16 minutes.

g. Bond Strength: ASTM C 1042, 1,500 psi (10 MPa).

h. Flexural Strength: ASTM C 78, 1,100 psi (7.6 MPa).

5. Directions for Use

a. Preparation: Base concrete must be sound and clean. Chip, chisel, bushhammer, scabble, or shotblast damaged surface down to sound concrete. Any oil soaked concrete must be removed. Blow surface clean with water and compressed air. The bonding surface must be free of any coatings, paints, sealers, or curing compounds.

b. Bonding: Prewet the concrete surface so that water is not rapidly removed from the Speedpave repair mortar. Brush in a loose mixture of Speedpave as a bond coat. Do not allow bond coat to dry out before Speedpave application.

c. Mixing: Use a mortar mixer in good working condition. Add 0.90 gal. (2.4 liter) of water per unit. Add 3 to 4 bags per batch and mix for 2 to 3 minutes to produce a smooth, lump free consistency. Slight changes to the recommended water dosage are permissible to achieve a desired consistency.

d. Placement: Transport mortar to repair area in a buggy or wheelbarrow. Place onto repair and screed to meet adjacent level. Working time is 10 to 12 minutes.

e. Finishing: Apply broom, float, or trowel finish to achieve desired texture.

f. Protection: Keep from freezing for 24 hours.

g. Curing: No separate curing compound is required, however Metcure or Seal N Kure can be applied after placement.

h. Maintenance: Speedpave is intended to be free of maintenance once properly installed. Standard concrete sealers and coatings may be applied, if desired.

6. Availability

Speedpave 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

Speedpave 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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