

KE-38

Concrete Repair Patching Compound

1. Product Description

a. Basic Use: Thickpave is a latex modified concrete repair mortar for patching or resurfacing horizontal surfaces. It is used as a trowel-down or screedable material and is suitable for both indoor and outdoor applications. Thickpave can be used from a thickness of 1/2 in. (12.7 mm) to 2 in. (50 mm).

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 materials required.
- Can be applied from 1/2 in. (12.7 mm) to 2 in. (50 mm) thick.
- 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. Thickpave is excellent for all horizontal concrete surfaces.

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

e. Composition: Thickpave is a two-part system consisting of a special blend of a cement/aggregate powder with specialty chemical additives. It is mixed with an acrylic based latex admixture.

THICKPAVE

Two Component, Acrylic Latex Modified Mortar For Thick Repairs

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

2. Packaging

Thickpave is packaged in 68-lb. (30.8 Kg) units which consists of 60-lbs. (27.2 Kg) of powder and 1 gal. (3.8 liter) of Acrylpave. It is available as a self-contained kit in a 5-gal. (18.9 liter) pail or as palletized bags and jugs.

3. Estimating/Yield

One unit of Thickpave yields 0.50 cu. ft.(0.014 cu. m). It will cover 12 sq. ft. (1.1 sq. m) at 1/2 in. (12.7 mm) thick. For extra deep patches or filler applications, Thickpave 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.

Age	Strength
1 day	3,200 psi (22 MPa)
3 days	4,300 psi (30 MPa)
7 days	5,500 psi (38 MPa)
28 days	7,000 psi (48 MPa)

c. Flexural Strength: ASTM C 78, 28 Days; 1,400 psi (10 MPa).

d. Bond Strength: ASTM C 1042, 28 Days; 1,350 psi (9.3 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.

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b. Bonding: The base concrete surface must be pre-wetted to the extent that moisture is not rapidly removed from the Thickpave mortar. Remove any free-standing water. Brush in a loose mixture of Thickpave as a bonding agent or use the Acrylpave directly. 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 Acrylpave 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, Thickpave 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: Thickpave 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: Thickpave is intended to be free of maintenance once properly installed. Standard concrete sealers and coatings may be applied, if desired.

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