

CONCRETE PATCH BINDER

SMT-252

REVISED 11/13/19

PRODUCT DESCRIPTION & BENEFITS

SealMaster Concrete Patch Binder is a 100% acrylic emulsion that is mixed with portland cement and sand, producing a patch mix with superior flexural, adhesive, and impact strength, as well as excellent abrasion resistance. Patch mixes based on Concrete Patch Binder are ideal for repairing and resurfacing both interior and exterior concrete surfaces.

Features include:

- Excellent adhesion to concrete and masonry
- Resistance to many industrial chemicals
- Environmentally friendly water based formulation
- Provides lasting repair for concrete surfaces
- Ideal for making thin overlays and repairs

USES

SealMaster Concrete Patch Binder is mixed with sand and cement to provide a superior patching material for concrete driveways, parking lots, patios, sidewalks, stucco, highway and bridge deck repair, factory floors, garage floors, basement floors, tennis courts, and more.

COMPOSITION

Concrete Patch Binder is a 100% acrylic emulsion resin designed specifically for mixing with sand and cement.

SIZES

Concrete Patch Binder is available in 55-gallon drums and 5 gallon pails.

COLOR

Dries the color of cement.

LIMITATIONS

Concrete Patch Binder patching mix shall not be applied at temperatures below 50°F or if temperature is expected to drop below 50°F within a 24 hour period after application.

ENVIRONMENTAL CONSIDERATIONS

Concrete Patch Binder is an environmentally friendly 100% acrylic water based product containing less than 100 g/l Volatile Organic Content (VOC).

PHYSICAL/CHEMICAL PROPERTIES:

Patching mixes based on Concrete Patch Binder meet the following material requirements when tested in accordance with ASTM C190-72, ASTM C109-73, and ASTM C348-72. (see chart on right)

Chemical & Physical Analysis	
Weight Per Gallon @ 77°F	8.8 lbs. gallon
Tensile Strength (PSI)	855 PSI
Compressive Strength (PSI)	5700 PSI
Flexural Strength (PSI)	1850 PSI
Shear Bond Adhesion (PSI)	>550 PSI
Impact Strength, inch-lbs.	22 inch-lbs.
Abrasion Resistance (% weight loss)	1.57%

INSTALLATION

Concrete surface must be cleaned entirely of dust, dirt, debris, oils, waxes, coatings, and other foreign materials.

METHODS

A power mixer (drill with mixing attachment or mortar mixer) is recommended. Small amounts of material may be mixed by hand.

MIXING PROCEDURES

Use the following ratios to prepare a patching mix based on Concrete Patch Binder:

- Sand.....100 lbs.
- Portland Cement (Type I)....33 lbs

Thoroughly premix sand and cement together.

- Concrete Patch Binder.....3.5 gals.
- Water*.....1/2 gallon

*Additional water may be required to achieve workability.

IMPORTANT

Mix thoroughly for only 2-4 minutes. DO NOT OVERMIX as this may cause excessive air entrainment and loss of strength.

APPLICATION

Apply patch mix (Concrete Patch Binder, Sand, Cement, Water - if needed) to properly prepared surface with a trowel or screed. For areas deeper than 1/2" apply in lifts no greater than 1/2" at a time. Final finish may be troweled, floated, or brushed. Allow surface to harden completely before opening to traffic.

APPLICATION RATE OF MIXED MATERIALS

100 lbs. of patch mix will fill approximately 3 square yards (27 square feet) at 1/4" depth.

ESTIMATING MATERIAL REQUIREMENTS

One gallon of Concrete Patch Binder will produce enough patch mix (when mixed with sand and cement) to fill .86 square yard (approximately 7.75 square feet) at 1/4" depth.

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PRECAUTIONS

Both surface and ambient temperature shall be a minimum of 50°F. Do not apply when temperature is expected to drop below 50°F within a 24 hour period following application. Keep Out Of Reach Of Children. Do not store unopened drums or pails in freezing temperatures.

PACKAGING AND AVAILABILITY

Concrete Patch Binder is supported by a nationwide network of SealMaster manufacturing facilities along with a nationwide network of qualified applicators.

WARRANTY AND DISCLAIMER

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.



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