



Your Single Source For Innovative Architectural Concrete Solutions

Technical Bulletin

BOMANITE REPAIR MORTAR

PRODUCT DESCRIPTION

A) Composition and Typical Uses

Bomanite Repair Mortar is a polymer-modified, two-component smoothing and resurfacing compound for concrete floors and decks. It can be applied to any thickness from featheredge to three inches with perfect adhesion. Bomanite Repair Mortar has very high compression strength and it can be left exposed to industrial-type traffic or covered with almost any type of floor covering -- carpet, resilient tile, even the very hard troweled resin floor systems.

Compared to conventional concrete toppings, Bomanite Repair Mortar has greatly improved adhesion, greater abrasion resistance, less shrinkage, greater resistance to water and salt penetration, and better tensile strength.

Bomanite Repair Mortar is zero-VOC, virtually odorless, and environmentally safe. It requires no special training for installation and is easily handled by a handyman mason. It sets rapidly, can be applied over damp (not wet) surfaces, and can be installed at temperatures as low as 50 °F (10 °C).

Use Bomanite Repair Mortar for interior or exterior structural repair applications on spalled, deteriorated or scaling concrete decks and industrial floors. Bomanite Repair Mortar is specially designed to prepare concrete for Bomanite polymer-modified floor finishes.

B) Advantages and Limitations

Advantages

- High-build: can be applied from featheredge to three inches
- Non-shrinking: no cracks or fissures, same co-efficient of expansion as concrete
- Freeze-thaw resistant: water retardancy prevents cold weather scaling
- Simple to use: pre-portioned mixing
- Polymer-fortified: self-curing and superior adhesion
- High compressive strength

Limitations

- Bomanite Repair Mortar will cure to a slightly darker color than concrete.

PHYSICAL CHARACTERISTICS AND TECHNICAL DATA

Compressive Strength

ASTM C-109 (2" x 2" cubes) 4,219 psi

Indentation Characteristics

(Steadily Applied Load)
MIL-D-3134, Para. 4.7.4.2.1
(2,000 lbs. on 1" steel ram imposed for 30 minutes)
2.26%

Adhesion

MIL-D-3134, Para. 4.7.14
(Shear from steel plate after 96 hours)
305 psi

Water Absorption

MIL-D-3134 3.41%

Tensile Strength

ASTM C-190 925 psi

Flexural Strength

ASTM C-580 2,415 psi

Impact Resistance

(Gardner Impact Tester)

No chipping, cracking, or delamination and not more than 0.014"



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SPECIFICATION ASSISTANCE

Consult The Bomanite Company for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

WARRANTY

This product is warranted to meet uniform quality standards within conventional manufacturing tolerances. Since no control is exercised over product use, no warranty or guarantee, expressed or implied, can be made to such use. Seller's and manufacturer's obligation under this warranty is limited to reimbursement of the purchase price of the portion of the product proven to be defective. The user assumes all risks and liability resulting from the use of this product.