

APPLICATION GUIDELINE

Dense Mortar Application

Applicable products: EC-80, EC-90, EC-200, EC-R590 and EC-R540

Application Notes

These guidelines assume optimal jobsite conditions: 50-to-85°F ambient and substrate temperatures, 70% or lower relative humidity, dry weather, and no moisture problems with the substrate. Conditions at your jobsite may warrant modifications to these procedures.

PART 1. SURFACE PREPARATION

Immediately prior to application of coating, concrete substrate must be:

- Adequately cured (generally, at least 28 days; check with Blome International if concrete has cured less than 28 days).
- Structurally sound.
- Free of all dirt, dust, debris, oil, grease, fats, chemical contamination, salts, solvents, surface hardeners, incompatible curing compounds and form release agents, laitance and efflorescence.
- Concrete surfaces must be dry (except when using EC-R540).

and must have:

- Tensile strength of at least 300 psi.
- All fins, projections and splatter removed.
- All defects repaired using patching as described herein.
- Failed or otherwise incompatible old coatings removed.
- A surface texture similar to medium sandpaper (40-to-60 grit).

PART 2. SURFACE RESTORATION

Blome International recommends the use of the dense mortar mix for surface restoration of horizontal and vertical concrete surfaces to receive a Blome International topping.

PART 3. PRIMING: Use #75 Primer in conjunction with EC-80, EC-90 EC-R590, and use EC-R540 resin/hardener mixture in conjunction with EC-R540 dense mortar mix. Use Primer#205 when applying EC-200

3.01 Priming With Blome #75 Primer, EC-R540 or #205

- A. Mix Primer. Refer to the most recently published Technical Bulletin for mixing and application instructions.
- B. Apply the Primer to prepared surface being careful not to create puddles.
- C. Allow to cure until slightly tacky.
- D. If using EC-200, allow Primer 205 to cure tack free before proceeding with application of EC-200.

Theoretical Coverage Rate:

Primer @ 5-to-6 mils - 290 sq. ft. per mixed gallon

Note: For complete information refer to the most recently published technical bulletin.

PART 4. SYSTEM APPLICATION

4.01 Mixing Procedures

- A. Blome #410 filler is used in all of the above-mentioned products to create a dense, trowelable mortar.
- B. Using a clean mixing container, blend the Part A resin with the Part B hardener and mix thoroughly for 2 minutes using a Jiffy type mixer.

- C. Immediately add the pre-packaged Blome #410 filler blend. Add the #410 slowly and blend it in until the particles are thoroughly wetted out. The mix should have a creamy, trowelable consistency.

4.02 1/8" (125-mil) Application of Dense Mortar

- A. Apply at 1/8" thickness. The preferred hand tools for applying the mortar is a flat steel trowel.
- B. Work the material into any voids encountered, to completely displace any trapped air.
- C. Before the topping begins to gel, trowel marks and similar cosmetic imperfections may be removed using a brush.
- D. Allow to cure 24 – 48 hours before placing in service.

Theoretical Coverage Rate:

Aggregate Filled Coating @ 125-mils - 12 sq. ft. per mixed gallon

4.03 Construction Details

- A. Refer to job specification or contact Blome International Technical Service for specific construction detail application recommendations for your particular project. The Blome International separate document "Construction Details" may be used as a general guideline.

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