

APPLICATION GUIDELINE

125/50 RS

125-mil Reinforced System for Horizontal Surfaces and 50-mil Neat Vertical Surfaces

Applicable Products: EC-80, EC-90 and EC-200

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.

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 R590 and #83MP for surface restoration of horizontal and vertical concrete surfaces to receive a Blome International coating (except when using a vinyl ester coating system).

Refer to the R590 and #83MP technical bulletins for step-by-step information on mixing, priming, and application as a surface restoration material.

For surface restoration when using a vinyl ester coating system, use EC-200 filled with #410 filler to make a vinyl ester mortar.

PART 3. PRIMING

3.01 Priming Surface To Be Coated

- A. Mix Blome International recommended primer. Refer to recommended primer's most recently published technical bulletin for mixing and application instructions.
- B. Apply primer to prepared surface being careful not to create puddles.
- C. Allow to cure

Theoretical Coverage Rate:

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

Note: For complete information on a Blome International recommended primer, refer to its most recently published technical bulletin.

PART 4. SYSTEM APPLICATION

4.01 Mixing Procedures

- A. Individually stir each separate Part A and Part B component to a smooth, uniform consistency and color. Any sediment in the container must be thoroughly scraped up and re-dispersed.
- B. Pour the entire contents of the Part B into the Part A container and mix thoroughly for 2 minutes using a Jiffy type mixer.
- C. For vertical or steeply pitched surfaces, add Part C thixotrope. Blend the Part C into the mixed material until the mix is uniform in color and consistency.

Notes: •Adding Part C will darken the color of the coating somewhat. If this is not acceptable, fumed silica may be substituted.

4.02 125-mil Reinforced System (RS) for Horizontal Surfaces

- A. Evenly apply a base-coat of material at approximately 40-to-50 mils.

Note: The preferred hand tools for applying material are a notched squeegee, notched trowel or spray.

- B. Immediately place a layer of EC-Scrim reinforcement into the wet base-coat. Overlap seams a minimum of 2 inches and apply a liberal amount of material between the overlapping layers.

Note: Use a flat trowel to smooth, flatten and embed the EC-Scrim reinforcement. It is critical the EC-Scrim is completely encapsulated and that none is left exposed.

- C. Apply a 75 mil top-coat of coating material to encapsulate the EC-Scrim.
- D. Allow to cure.

Theoretical Coverage Rate:

- Base-Coat @ 50-mils - 32 sq. ft. per mixed gallon
- Reinforcing Layer - EC-Scrim reinforcement
- Top-Coat @ 75-mils - 22 sq. ft. per mixed gallon

4.03 50-mil Neat System for Vertical Surfaces

- A. Evenly apply material at 50-mils (or specified thickness). Use a wet mil gauge to frequently monitor thickness.

Reminder: Add Part C thixotrope for work on vertical or steeply pitched surfaces. Refer to part 4.01 step C.

- B. Allow to cure.

Theoretical Coverage Rate:

- Coating @ 50-mils -32 sq. ft. per mixed gallon

4.04 Construction Details

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

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