

## **APPLICATION GUIDELINE**

### **TM250: 250/125 Trowel Mix**

Trowel Mix 1/4" horizontal surfaces and 1/8" on vertical surfaces

**Applicable products:** 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 EC-R590 and #83MP for surface restoration of horizontal and vertical concrete surfaces to receive a Blome International topping.

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

**PART 3. PRIMING** (Use #75 Primer in conjunction with EC-R590, and use EC-R540 resin/hardener mixture in conjunction with EC-R540 blended with aggregate to make a trowellable topping).

#### **3.01 Priming With Blome #75 Primer or EC-R540**

- A. Mix Primer. Refer to the Blome #75 Primer or EC-R540 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.

Theoretical Coverage Rate:

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

Note: For complete information on #75 Primer or EC-R540, refer to its most recently published technical bulletin.

### **PART 4. SYSTEM APPLICATION**

#### **4.01 Mixing Procedures**

- A. Blome EC-R590 and EC-R540 TG are supplied in pre-measured kits. Each kit yields ½ cu. ft. of trowellable mortar or 3.75 gallons of material.

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 TG Aggregate Blend.

Note: Add the aggregate slowly and blend it in until the aggregate is thoroughly wetted out.

D. 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.

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

#### **4.02 1/4" (250-mil) Trowel System for Horizontal Surfaces**

A. Apply at 1/4" thickness.

Note: The preferred hand tools for applying aggregate filled material to horizontal surfaces 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 smoothed away using a trowel or a stiff bristled brush.

D. Allow to cure.

Note: Refer to the specific product's Technical Bulletin for cure times.

Theoretical Coverage Rate:

Aggregate Filled Coating @ 250-mils - 6 sq. ft. per mixed gallon

#### **4.03 1/8" (125-mil) Trowel System for Vertical Surfaces**

A. Apply at 1/8" thickness.

Note: The preferred hand tools for applying aggregate filled material to vertical or steeply pitched surfaces is a flat steel trowel.

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

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 smoothed away using a trowel or brush.

D. Allow to cure.

Theoretical Coverage Rate:

Aggregate Filled Coating @ 125-mils - 12 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. The Blome International separate document "Construction Details" may be used as a general guideline.

Rev: 3/01