

EC-200 **High Performance Vinyl Ester Coating**

PRODUCT DESCRIPTION

EC-200 is a Vinyl Ester coating that is used as a chemical resistant coating and lining system for secondary containment structures, concrete floors, and other applications which demand high performance and durability. EC-200 is typically aggregate filled by the “seeded” or blended methods. Aggregate filled EC-200 results in a non-slip yet cleanable finished surface. The product can be reinforced with EC-Scrim to provide a system of high impact and thermal shock resistance. EC-200 reinforced with EC-Scrim is crack resistant and will effectively bridge minor cracks in concrete. EC-200, as packaged, is a semi-leveling material. However, it may be used as a high build coating system by adding a third component, Part C, which is a non-silica thixotrope. The product may be applied by spray, notched trowel, squeegee, brush or roller. EC-200 is also installed as a 1/8” thick, trowel applied Dense Mortar Lining using Blome 410 Filler Powder. Also available is EC-200HMW (high molecular weight) for increased resistance to certain chemicals at higher temperatures. Consult EC-200HMW data sheet for more information.

PACKAGING AND COVERAGE

EC-200 is available in 1- and 5-gallon units. Each unit consists of pre-measured Part A and Part B components. Bagged Part C thixotropic agent, and/or Blome 410 Filler Powder are ordered separately. Coverage will be affected by the condition and type of the substrate being coated (degraded vs. smooth, steel vs. concrete, etc.) and the applicators’ ability to maintain a consistent thickness. To calculate theoretical DFT coverage per gallon, divide desired DFT mil thickness into 1365. The result is the number of square feet per gallon.

TYPICAL PROPERTIES

Solids by volume:	85%
VOC:	100 g/L, max
Weight per Mixed Gallon:	9.5 lbs
Pot life @ 75°F:	30 to 35 min
Cure Times @ 75°F: Cure firm	12 hrs
Chemical service:	36 hrs
Primer:	Primer 205
Compressive Strength- ASTM C-579:	15,000 – 16,000 psi
Tensile Strength - ASTM D-638:	5,000-6,000 psi,
Flexural Strength – ASTM D 790	8,000 – 9,000 psi
Hardness - ASTM D-2240 Shore D:	80
Color:	Red, Gray

STORAGE

Keep EC-200 components tightly sealed in their original containers until ready for use. Store at 50 to 85°F. The optimum temperature for material workability is 75 to 85°F. Properly stored EC-200 has a shelf life of 3 months.

CONCRETE SURFACE PREPARATION

Surfaces must be clean, dry and free of dirt, dust, oil or grease. The surfaces must not be contaminated with chemicals or any other types of contaminants prior to the coating being applied.

1. The concrete should be adequately cured.
2. Structurally sound and dry.
3. Free and dirt and contaminants.
4. All defects should be repaired.
5. All loose coatings must be removed.
6. The concrete to be lined should be prepared by abrasive blasting, shot blasting, grinding or, in some instances, it may be acid etched check with Blome International for specific recommendations.

APPLICATION OF NON-REINFORCED, AGGREGATE FILLED SYSTEMS

1. By the seeded method, EC-200 may be applied by spray, trowel, squeegee or roller.
2. For spray applications, use a Graco 45:1 airless spray rig.
3. Mix and apply Primer 205 at approximately 4-6 mils and allow to set tack free before proceeding.
4. Premix EC-200 Part A in its individual container prior to use.
5. Pour the entire contents of Part B into container holding Part A and mix thoroughly for 2-3 minutes using a Jiffy type mixer attached to a power drill.
6. Apply EC-200 to the specified thickness.
7. While EC-200 is still wet, broadcast 20/40 mesh silica sand into the wet basecoat until a dry layer of sand appears on the surface. Allow to cure until firm.
8. Remove excess aggregate by sweeping. Repair any defective areas at this time by grinding and re-applying EC-200.
9. Apply a 10-15 mil topcoat of EC-200 by squeegee and backrolling.
10. Allow to cure 36 hrs at 75°F before placing in service.

APPLICATION OF REINFORCED SYSTEMS

1. EC-200 may be applied by spray, trowel, squeegee or roller.
2. For spray applications, use a Graco 45:1 airless spray rig.
3. Mix and apply Primer 205 at approximately 4-6 mils and allow to set tack free before proceeding.
4. Pre-cut EC-Scrim into easy to handle sections and have them clearly marked as to where they go before mixing any material. Allow for a two inch overlap of seams.
5. Premix EC-200 Part A in its individual container prior to use.
6. Pour the entire contents of Part B into container holding Part A and mix thoroughly for 2-3 minutes using a Jiffy type mixer attached to a power drill.
7. Apply a 35 – 40 mil base coat of EC-200 to the primed surface, and immediately imbed EC-Scrim reinforcement, using flat trowels or rollers and working from the center to the outer edges, remove any trapped air and cause the EC-Scrim to lay flat. Immediately apply additional EC-200 to thoroughly saturate the EC-Scrim and apply a minimum of 60 – 75 mils. Overlap seams two inches.
8. Allow to cure 36 hours before placing in service.

CAUTION

Blome EC-200 may cause skin irritation with prolonged or repeated contact. Handle with care and read the safety data sheets before handling.

WARRANTY

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

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