

## EC-200 HMW High Performance Vinyl Ester Coating

### PRODUCT DESCRIPTION

EC-200 HMW is a Vinyl Ester coating that is formulated and used as a coating in very demanding applications where enhanced performance is required. EC-200 HMW is typically aggregate filled by the “seeded” or blended methods. Aggregate filled EC-200 HMW 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 HMW reinforced with EC-Scrim is crack resistant and will effectively bridge minor cracks in concrete. EC-200 HMW, as packaged, is a semi-leveling material. However, it may be used as a high build coating system by adding a third component, EC-Thixotrope, which is a non-silica thixotrope. The product may be applied by spray, notched trowel, squeegee, brush or roller. EC-200 HMW is also installed as a 1/8” thick, trowel applied Dense Mortar Lining using Blome 410 Filler Powder.

### PACKAGING AND COVERAGE

EC-200 HMW is available in 1 and 5-gallon units. Each unit consists of pre-measured Part A and Part B components. Bagged EC-Thixotrope thixotropic agent, and/or Blome 410 Filler Powder can be 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

Dry film thickness (DFT):	85% wet film (WFT)
Weight per Mixed Gallon:	9.5 lbs
Pot life @ 75°F:	30 to 35 min
Initial set @ 75°F:	6 – 8 hrs
Chemical service (@ 75°F):	36 hrs
Recoat window (unseeded @ 75°F):	6 – 24 hours
Primer:	Primer 205
Compressive Strength- ASTM C-579:	17,000 – 17,500 psi
Tensile Strength - ASTM D-638:	6,000 – 7,000 psi,
Flexural Strength – ASTM D 790	8,000 – 9,000 psi
Hardness - ASTM D-2240 Shore D:	> 85
Adhesion to Steel (3-5 mil, white metal):	>2500 psi
Adhesion to Concrete (60-grit profile):	>Concrete strength
Color:	Red, Gray, Custom
VOC (Measured):	100 g/L maximum*
VOC Category:	Industrial Maintenance Coating

\*Complies with SCAQMD VOC category limit for an Industrial Maintenance Coating

## **STORAGE**

Keep EC-200 HMW 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 HMW has a shelf life of 3 months. Shelf life can be extended by storing in refrigerated areas.

## **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 HMW 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 HMW (Resin) Part A in its individual container prior to use.
5. Pour the entire contents of Part B ("VECure") 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 HMW to the specified thickness.
7. While EC-200 HMW 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 HMW.
9. Apply a 10-15 mil topcoat of EC-200 HMW by squeegee and back rolling.
10. Allow to cure 36 hrs at 75°F before placing in service. More time is required for cooler temperatures; less time is required for warmer temperatures.

## **APPLICATION OF REINFORCED SYSTEMS**

1. EC-200 HMW 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 HMW 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 HMW 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 HMW 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 HMW Resin is flammable and may cause eye, skin and respiratory irritation. Handle with care and read the Blome safety data sheet (SDS) for each component used in this system..

#### **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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