

EC-66

High Performance Flexible Epoxy Coating

PRODUCT DESCRIPTION AND USES

EC-66 is a 100% solids, flexible epoxy that is virtually odor free. Typical applications include use as a chemical and water resistant coating and lining system for concrete floors, cooling tower basins and other applications which demand flexibility for bridging moving joints and cracks. The coating can be reinforced with one of two different high elongation fabrics to provide a system that will bridge working cracks as well as expansion joints. EC-66 reinforced with EC-125 fabric can bridge cracks and tolerate expansion joint movement up to 1/2" without cracking. EC-66, 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 (when using reinforcing fabric, Part C is not required). The product may be applied by airless spray, notched trowel, squeegee, brush or roller. To make a trowel/caulk grade or putty, add Part C. EC-66 cures to form an abrasion, chemical and water resistant coating with good flexibility, superior thermal shock, impact resistance and excellent crack bridging capabilities. Concrete slabs with severe cracking problems, as well as all construction and expansion joints, may be sealed using EC-66 reinforced with EC-125 or EC-60 Fabric. EC-66 reinforced with EC-60 Fabric is ideally suited for process flooring and secondary containment linings.

PACKAGING AND COVERAGE

EC-66 is available in a 3-gallon unit. Each unit consists of pre-measured Part A and Part B components. Bagged Part C thixotropic agent may be ordered separately. Coverage will be affected by the condition and type of substrate being coated (degraded vs. smooth, steel vs. concrete, etc.) and the applicators ability to maintain consistent thickness. To calculate theoretical coverage per gallon, divide desired mil thickness into 1604. The result will be the number of square feet per gallon. The thickness of the coating system will vary depending on which fabric is used. The following is the thickness and theoretical coverage rates for fabric reinforced systems once they have been saturated with EC-66:

FABRIC	THICKNESS*	THEORETICAL COVERAGE
EC-60	60 to 70 mils	22 to 27 square feet/gallon
EC-125	125 to 135 mils	12 to 13 square feet/gallon

*Thickness listed represent finish thickness after saturation of fabric. Over-saturation of the fabrics will increase finish thickness and decrease coverage rates.

TYPICAL PROPERTIES

Solids by volume:	100%
Weight per Mixed Gallon:	10 lbs
Pot life @ 75°F:	30 to 45 min
Primer:	Steel: Optional Concrete: Primer 75
Hardness – ASTM D-2240 Shore A:	55
Abrasion Resistance – ASTM D-1044: (CS 17 wheels – 1000 cycle, 1000 gram load)	26 mg loss
Tensile Strength – ASTM D-638	2100 psi
Tensile Strength Reinforced with EC-125 fabric	3300 – 3600 psi
Tensile Elongation – ASTM D-638:	Neat 110%
Bond Strength – ASTM D-4541:	Concrete: cohesive failure in concrete

PACKAGING & STORAGE

Keep EC-66 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-66 has a minimum shelf life of 12 months.

SURFACE PREPARATION

Surfaces must be clean, dry and free of dust, dirt, oil, grease or other jobsite contamination. All surfaces must free of contamination with chemicals prior to the coating application.

CONCRETE SURFACE PREPARATION

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 SYSTEMS

1. EC-66 may be applied by spray, trowel, squeegee or roller.
2. For spray applications, use a Graco 56:1 airless spray rig.
3. Mix and apply the primer 75 at approximately 4-6 mils and allow to set firm to the touch before proceeding.
4. Premix Part A and Part B in their individual containers 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-66 to the specified thickness.
7. Allow to cure 36 hrs at 75°F before placing in service.

APPLICATION OF REINFORCED SYSTEMS

1. EC-66 may be applied by spray, trowel, squeegee or roller.
2. For spray applications, use a Graco 56:1 airless spray rig.
3. Mix and apply Primer 75 at approximately 4-6 mils and allow to set firm to the touch before proceeding.

4. Pre-cut reinforcing fabric 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 Part A and Part B in their individual containers 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 20 – 30 mil base coat of EC-66 to the primed surface, and immediately imbed the fabric, using flat trowels or rollers and working from the center to the outer edges, remove any trapped air and cause the fabric to lay flat. Immediately apply additional EC-66 to thoroughly saturate the fabric. Use flat trowels to remove air pockets trapped in fabric. Overlap seams two inches.
8. Allow to cure 36 hours before placing in service.

CAUTION

Blome EC-66 components may cause skin irritation with prolonged or repeated contact. Handle with care and read the material safety data sheet, which is available for each product.

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 MERCHANTABILITY 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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