

RB-111 BUILDING EXTERIOR ENVELOPE REPAIR & FINISHING SYSTEMS 07100

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. RB-111 Protective Coating with Migratory Corrosion Inhibitors for exterior masonry surfaces.

1.02 REFERENCES

TYPICAL PERFORMANCE TABLE		
(Committee) ASTM-09-03-15	Carbonation Resistance	<2 mm Control (uncoated) 30.5mm
ASTM E-96	Water Vapor Transm.	99.7 grams/sq. meter/24 hrs. or 14.3 perms
ASTM C 1202	Water Permeability	System 235 Coulombs
NCR 244	Chloride Permeability	92% Chloride screened out
ASTM C-501	Wear Resistance	Wear index 14.5 C-17 wheel
ASTM C-638	Tensile Strength	460 psi
ASTM C-638	Elongation (Crack Bridging)	600% (EM-100-N)
ASTM C-836	Crack Bridging	1/8"no rupture or loss of bond (EM-100-N)
ASTM D-751 Procedure B	Hydrostatic Pressure 2lbs/ft/2 months	No transmission
ASTM D-1004	Tear Resistance	89 pounds per linear inch
ASTM C-638	Intercoat Adhesion (System)	20 piw
ASTM C-638	Adhesion to Concrete	12.3 piw
ASTM D-822	Weathering Resistance	5000 hrs,w/ultraviolet & water spray produced no effect
ASTM B-117	Salt Spray	5000 hrs. exposure produced no degradation
ASTM D-2240	Hardness	82 Shore A
ASTM E-84	Fire Test	System rated Class A
Environmental	VOC	Zero, non-toxic, odorless

1.03 SUBMITTALS

- A. Submit two samples of each coating system(s), applied to 1/4" plywood or similar rigid base.
- B. Submit two copies of manufacturer's literature for all products furnished, including appropriate Material Safety Data Sheets (MSDS).

1.04 QUALITY ASSURANCE

- A. Applicator: Trained and certified by manufacturer

- B. Manufacturer: The manufacturer of the specified products shall have in existence, for a minimum of ten years, a program of training and technical support for certified applicators.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to job site in sealed, undamaged containers with labels intact and legible, indicating the material name, date of manufacture and lot number.
- B. Store materials indoors, in a dry location, at temperatures not exceeding 90°F or lower than **35°F**.

1.06 PROJECT CONDITIONS

- A. Install materials in accordance with all safety and weather conditions required by manufacturer, or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction.
- B. Project conditions involve only inspection and preparation of the top surface of the substrate to be coated.
- C. Environmental Conditions:
 - 1. All materials individually or mixed shall have zero volatile organic content (VOC).
 - 2. Do not apply materials if rain is anticipated within three hours of application.
 - 3. Substrate and air temperature must remain above 40°F for at least 4 hours after application of materials and remain above freezing for 24 hours
 - 4. All materials are non-hazardous and Class A fire-rated.

1.07 GUARANTEE

- A. The certified applicator and the manufacturer shall provide the owner with a five-year joint guarantee on the products and systems covered by this specification.
- B. The manufacturer of the specified products shall be under no obligation to provide a guarantee on the specified products in this specification, should a contractor be selected other than a certified applicator of the manufacturer.

PART 2-PRODUCTS

2.01 MATERIALS

RB-111 FINISHING SYSTEM WITH Migratory Corrosion Inhibitors

Two coat 50 – attractive, durable, protective, building exterior finishing system..

MANUFACTURER: Strongwall Industries, Inc., 107 Chestnut Street, Ridgewood, NJ 07450
Telephone 201-445-4633 Fax 201-447-2317
email: strongwall@strongwall.com

2.02 COMPONENTS

- A. Topping component is a latex vinyl copolymer emulsion and a factory apportioned catalyst with abrasion resistant aggregates.
- B. Flashing reinforcement (when required) is a spray bonded non-woven fabric with 5x5 polypropylene web.
- C. Crack treatment is an elastomeric rubber emulsion packaged in 5-gallon cans.
- D. Cleaning agent is water.

2.03 MIXES

A. RB-111 Building Exterior Finish

- 1. Crack treatment component
EM-100-N, a rubber emulsion, packaged in 5-gallon pails.
Mixing Ratio: Apply directly from pail
Yield: 800 lineal ft @ 50 mils at 2" wide per 5-gallon pail
- 2. Topping component
 - a. Rockbond #3 Liquid, a latex copolymer, 5 gallons of liquid packaged in 6-gallon pails and Rockbond #3 Aggregate Catalyst, packaged in 55-pound bags includes Migratory Corrosion Inhibitors.
 - b. Mixing Ratio: Two bags Rockbond #3 Aggregate Catalyst and one pail of Rockbond #3 Liquid form one unit.
Average Yield per Unit: 600 sq.ft. per unit @ 25 mils on a flat, dense, concrete surface.

B. Mixing:

- 1. Crack treatment component
 - a. Stir for 30 seconds in its container
- 2. Topping component
 - b. Stir Rockbond #3 Liquid in its shipping container for about 30 seconds and pour one-half into a clean container.
 - c. Gradually add one bag of Rockbond #3 Aggregate Catalyst into the shipping container, mixing continuously as the powder is added, using a ½" varispeed drill with mounted Jiffy blade.
 - d. After all powder is added, continue to mix for 3 minutes until the materials form a lump-free mixture. The mixture has a pot life of 30 minutes at 70°F.

PART 3-EXECUTION

3.01 Acceptable installers shall be trained and certified by the manufacturer.

3.02 EXAMINATION

A. Concrete:

1. Before coating is applied, inspect the top surface of the substrate, perform all required structural and surface repairs, and treat as necessary to remove laitance, loose material on the surface, grease, oil, paint and other contaminants which will affect the bond of the coating.
2. Commencement of coating installation implies acceptance of the top surface of the substrate area only, as suitable to accept coating system.

3.03 PREPARATION

A. Equipment Options:

1. Waterblast machine capable of delivering minimum water pressure of 5,000 psi to the substrate.
2. Wirebrush and vacuum.

3.04 APPLICATION

A. Rockbond RB-111

1. Crack treatment component:
 - a. Rout all structural cracks and cracks wider than 3/32" to 3/8" maximum and fill with HPL sealant, per manufacturer's recommendations and details.
 - b. Apply, over all cracks, a 2" wide (minimum) ribbon of EM-100-N elastomeric component in two 25 wet mil coats. Broadcast clean, dry, medium-size, quartz sand over second coat.
 - c. Allow to fully cure, for a minimum of 2 hours at 70°F, to its full depth.
 - d. Form flashings by applying a 5" wide ribbon, onto both horizontal and vertical surfaces.

Note: Add the required amount of thickener, into the EM-100-N material to increase its viscosity for the second coat, for vertical applications.
2. Topping component:
 - a. Dampen concrete surfaces to a dull grey prior to applying RB-111.

- b. Mix and apply two coats in the specified thickness over the entire surface by brush, roller or spray.
3. COLOR TOPPING COMPONENT: Apply to improve cleanability and to enhance color quality.
- a. Materials: Resicolor #4 or Resiclear #6 Strongcote homopolymer toppings, packaged in 5-gallon pails.
- Mixing Ratio: Apply directly from pail.
- Yield: 1200-1500 sq.ft. per 5-gallon pail
- b. Mixing: Stir for 30 seconds
 - c. Application: Apply on a clean, dry surface, using a short nap roller.

END OF SECTION

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