# Elastomeric Basecoat
## Data Sheet

Part # EB

**DESCRIPTION:** Concrete Solutions® Elastomeric Basecoat is a unique waterbased waterproofing membrane formulated with a non-ionic, carboxylated, styrene butadiene copolymer latex. It dries to a durable, tough film with high water resistance. It is elastic and bonds exceptionally well to concrete and wood surfaces.

**TYPICAL USES:** Elastomeric Basecoat is used in the Concrete Solutions Crack Repair System to secure the 4" Reinforcement Fabric over the Concrete Solutions Epoxy 500 in the cracks. It is also used to waterproof concrete and wood decks and balconies prior to applying a Concrete Solutions Polymer Concrete Overlay System. It is used in combination with Reinforcement Fabric to provide a reinforced water tight seal. It can be use as a basecoat on masonry walls such as concrete, brick, stucco and block to help bridge cracks and provide complete waterproofing. It is used as a waterproofing underlayment for tile and other flooring and wall materials and as a below grade waterproofing membrane for foundation, basement and planter walls.

**FEATURES & BENEFITS:**

- Can be applied using a 3/4" nap paint roller
- Waterproofs concrete and wood decks

| CHEMICAL PROPERTIES: | Result |
|---|---|
| Return to Service Time (vehicle traffic) | 8 – 12 hrs |
| Coverage Rate per Gallon | 100 sqft |

| TYPICAL PHYSICAL PROPERTIES: | Test | Result |
|---|---|---|
| Adhesion 7 day dry / 7 day wet | | |
| -cementitious board | 156 psi | Cohesive substrate failure |
| -exterior plywood | 89 psi | Cohesive substrate failure |
| -polystyrene | 48 psi | Cohesive substrate failure |
| -thinset to membrane | 395 psi | Tile to thinset / tile failure |
| Tensile Strength (psi) - 7 day dry | ASTM D-638 | 335 |
| - 7 day dry / 21 day wet | ASTM D-638 | 562 |
| Low Temp Flex & Crack Bridging | ASTM C-836 sec 5.7 | no cracks at 77°F or 0°F |
| Shear Strength, >50 psi | ANSI 118.10 | |
| - 7 day | | 200 psi |
| - 7 day water immersion | | 150 psi |
| - 4 week | | 355 psi |
| - 12 week | | 389 psi |
| - 100 day water immersion | | 194 psi |
| Seam Strength - minimum | | 8 lb/in width |
| - maximum | | 10.2 lb/in width |
| Breaking Strength - minimum | | 170 psi |
| - maximum | | 401 psi |
| Dimensional Stability - maximum 0.70% length | | 0.70% change |
| Elongation (%) - 7 day dry | ASTM D-638 | 580 |
| - 7 day dry / 21 day wet | ASTM D-638 | 657 |
| Damp-Proofness - no visible water penetration after 48 hrs | | passes |
| Fungus & Micro-organism Resistance | | |
| -Membrane shall not support mold growth | | passes |
| Permeability | ASTM E-96 | 0.013 |
| Water Vapor Transmission: | | |
| -Rate of Transmission (grains/hr/sqft) | ASTM E-96 | 0.085 |
| Hydrostatic Resistance | | |
| - Procedure B | ASTM D-751 | Passes |

## CONCRETE SOLUTIONS® ELASTOMERIC BASECOAT *(continued)*:

**SURFACE PREPARATION:** The surface must be clean and free of dust, loose material and any contaminants that may interfere with bonding. Clean concrete surfaces by shot blasting or power scrubbing with detergent, acid washing, neutralizing and pressure washing. Wood surfaces can be cleaned by power sanding.

## APPLICATION INSTRUCTIONS - MOST COMMON:

- CRACK REPAIR - Elastomeric Basecoat is used in the Crack Repair System to lay the 4" Reinforcement Fabric over cracks filled with Epoxy 500. See the Concrete Solutions Crack Repair Instructions with step by step pictures for detailed application instructions.
- WATERPROOFING PLYWOOD DECKS - To waterproof a plywood deck that is properly constructed according to local building codes and already has flashing properly installed around the walls and edges of the deck follow the procedure below.

**Prepare Surface -** Lay 15 lb. roofing paper over the wood deck (available at Home Depot). Lay the paper in straight rows staying 1" away from all the edges. Start from the low side of the deck and work towards the high side with each row overlapping a few inches onto the previous row. Lay the paper starting at the bottom of the slope, so if it rained the water would run off the paper and not under the paper onto the wood.

**Install Galvanized Metal Lath -** Lay galvanized metal lath (available at most Home Depots) over the 15 lb. roofing paper and the entire deck. Be careful that the edges of the lath do not line up over the seams of the plywood. Butt the metal lath edges together. Staple the metal lath every 4" along seams and edges and every 4 – 6" everywhere else. Use 3/4" galvanized staples. Keep the metal lath 1" back from all the perimeter edges. Do not allow metal to metal contact of dissimilar metals such as copper to avoid deterioration and corrosion by electrolysis.

**Apply Concrete Solutions Polymer Concrete -** Patch over the metal lath using Quick Set Patch Mix (QSPM) or Stamp-Top™, approximately 3/16" thick, to completely embed the lath.

**Apply Elastomeric Basecoat -** After the QSPM or Stamp-Top dries for at least 12 – 24 hours, begin rolling the Elastomeric Basecoat at one corner of the deck approximately 3 1/2 feet wide by 5 feet in length. Roll the Elastomeric Basecoat at a coverage rate of 100 sqft per gallon using a 1/2" or 3/4" nap paint roller.

**Lay Concrete Solutions Reinforcement Fabric into the Wet Elastomeric Basecoat -** Lay the 40" roll of Reinforcement Fabric into the wet Elastomeric Basecoat, so it is lined up next to both edges or walls at the starting corner. It should be overlapping the flashing and as close to the edge or wall as possible. Once the fabric is lined up and ready to roll, begin rolling the Elastomeric Basecoat ahead of the fabric a few feet at a time. Immediately lay the fabric into the Elastomeric Basecoat while it is still wet. As the fabric is being rolled be sure to keep it lined up straight with the starting edge or wall of the deck. After rolling several feet of fabric, roll another coat of Elastomeric Basecoat at approximately 100 sqft per gallon on top of the fabric, so it is completely saturated and secured in place. While the topcoat of Elastomeric Basecoat is still wet, lightly broadcast some #60 silica sand over it to provide a fine sandpaper finish when dry. The sand texture will provide an extra mechanical bond for the Polymer Concrete Bond Coat. **Note:** The person laying the fabric should wear baseball cleats or golf shoes to be able to walk on the fabric and the Elastomeric Basecoat without picking it up on their feet. If any wrinkles appear in the fabric as it is being rolled out, use a wall paper brush to rub them flat. Start in the middle of the fabric and work the wrinkles out to the edges. If the fabric gets out of alignment during the application, immediately pick it up by the ends of the roll. Lift the fabric as far back as needed and lay it back down lined up next to the starting edge, then roll over it again with the Elastomeric Basecoat.

Apply Elastomeric Basecoat ahead of the fabric at 100 sqft per gallon.

Roll the fabric into the wet Elastomeric Basecoat a few feet at a time.

Apply Elastomeric Basecoat on top of the fabric at 100 sqft per gallon after rolling it several feet and lightly broadcast some #60 silica sand.

When you reach the end of the deck, cut the fabric with a knife or scissors and start laying the next row.

**Lay More Rows Of Fabric Overlapping The First Row -** Once the first row of fabric is finished being laid down to the opposite end

**CONCRETE SOLUTIONS® ELASTOMERIC BASECOAT** *(continued)*:

of the deck or at a designated stopping point, cut the fabric using scissors or a knife and continue rolling the Elastomeric Basecoat and laying more rows of fabric next to the first row. Overlap each row of fabric 2 1/2 – 3" on top of the previous row. Continue laying rows of fabric over the Elastomeric Basecoat and rolling Elastomeric Basecoat on top of the fabric until the entire deck is covered. Remember to lightly broadcast #60 silica sand into the topcoat of Elastomeric Basecoat, then allow it to dry 8 – 12 hours or until thoroughly dry.

Lay the next row of fabric, so it overlaps the edge of the previous row 2-1/2 – 3". Continue laying rows of fabric until the whole surface is covered.

If applying a thin coating system over the fabric, it will be necessary to first patch the seams with Polymer Concrete using a trowel or metal edge squeegee and then apply a Bond Coat (Resurfacer) over the whole surface.

**Apply Polymer Concrete Texture Coat or 1/4" Stamping Application -** Once the Elastomeric Basecoat has cured properly for at least 8 – 12 hours, the next step is to apply Concrete Solutions Polymer Concrete Bond Coat (Resurfacer) over the fabric using a metal edge squeegee. For thin texture coat applications, it will be necessary to first patch the seams of the fabric. Mix 1 part polymer, 1 part water, 2 parts cement and 4 parts #60 silica sand. Use a hand trowel or the metal edge squeegee to make a two foot wide patch over all the seams. When dry in 1 – 2 hours apply a Bond Coat (Resurfacer) over the entire surface to cover the patches and to provide a smooth finish prior to applying a Texture Coat or 1/4" Stamping Application of the Polymer Concrete. (Patching the fabric seams is not needed when stamping.)

**SUBSTRATES:** Concrete, wood, brick, stucco

**HOW SUPPLIED:** Elastomeric Basecoat is supplied in one gallon and five gallon pails.

**SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)**

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

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