



ENDURO-LASTIC ELA Modified Polymer Binder

1. Description:

EP - ENDURO-LASTIC ELA is a one component modified polymer binder designed for use with a fiberglass chopped-strand mat on interior and exterior pedestrian surfaces.

2. Uses:

EP - ENDURO-LASTIC ELA Modified Polymer Binder is applied to reinforce a fiberglass chopped-strand mat on new or existing above grade structural concrete, plywood or steel substrates.

3. Surface Preparation:

3.1 Concrete: All concrete surfaces to receive the EP - ENDURO-LASTIC ELA Modified Polymer Binder reinforced with a fiberglass chopped-strand mat should be of sound structural grade. Metal pans should be vented when used to form new concrete slabs. Concrete installed over precast "T's" should have control joints installed over coinciding joints or openings in the precast. New concrete should be cured by the water curing method for at least 28 days. The cured concrete should be sloped to the drains. Verify plastic drains are not used. A light broom finish is recommended that is free of cracks, voids, fins, ridges, air-entrained holes or other imperfections. Remove dirt, dust, debris, oil, grease, curing agents, bond breakers, and other surface contaminants. All contaminants and imperfections that may impair adhesion must be removed from new and existing concrete. They should be removed by sandblasting, shotblasting or mechanical grinding. The concrete should be thoroughly cleaned by using a commercial pressure washer. Imperfections should be repaired with manufacturer approved materials. All cracks over 1/16 inch in width and all moving cracks less than 1/16 inch in width should be saw cut to 1/4 inch wide by 1/2 inch deep. Completely clean all saw cut cracks, expansion joints and control joints. Install backer rod and fill flush with polyurethane sealant. Allow to cure overnight. Be aware that drying time depends on temperatures and humidity.

3.2 Plywood: All plywood surfaces should be selected and installed in accordance with the requirements of the applicable building code. Plywood shall be a minimum of 5/8 inch thick tongue and groove exterior grade and have joints blocked and fastened. Plywood should be fastened with non-corroding screws, twist shank nails or 10d annular ring nails. Plywood must be sloped to drain. All contaminants and imperfections that may impair adhesion must be removed. Verify that plastic drains are not used and that the deck will drain properly, without low spots or high fascia edges. Completely

clean all joints, cracks and seams. Fill all separations over 1/16 inch in width with polyurethane sealant. Apply joint reinforcement consisting of a 5 inch trowel coat of Enduro-Flex Underlayment and reinforcing fabric imbedded into the wet coating.

3.3 Steel: Roughen surfaces sufficiently to ensure proper bonding. Remove dirt, dust, debris, oil, grease, and other surface contaminants, which could adversely affect application of the pedestrian traffic coating. Verify steel surfaces are backed with rigid substrate with sufficient rigidity to avoid excessive deflection. Verify that plastic drains are not used and that the deck will drain properly, without low spots or high fascia edges.

3.4 Metal: Flashing, scuppers, edges, vents, and other metal should be galvanized or non-ferrous. All should be properly secured 4 inches on center with non-corroding screws or ring shank nails to the substrate. Metal should be primed with a thin coat of EN-M-70 Metal Primer by using a sprayer or roller. Flashing should be caulked in front and back with polyurethane sealant. Use the Enduro-Flex Underlayment to adhere reinforcing fabric at the joint of the metal and substrate.

4. Mixing & Priming/Mixing:

Stir EP - ENDURO-LASTIC ELA Modified Polymer Binder well before using.

5. Color/Finish/Packaging:

EP - ENDURO-LASTIC ELA Modified Polymer Binder should be used at package consistency. Coatings are available in five-gallon containers. The chopped-strand mat shall be a 0.75-ounce fiberglass, multidirectional chopped-strand mat.

6. Application:

6.1 Fiberglass Underlayment: Lay out the fiberglass chopped-strand mat over the area to be immediately worked in accordance with manufacturer's instructions. Fiber-Glass may be overlapped 1/2 inch.

6.2 EP - ENDURO-LASTIC ELA Modified Polymer Binder: Apply the modified polymer binder in over the fiberglass chopped-strand mat. Eliminate air bubbles and wrinkles. Apply a second coat of the modified polymer binder the next day to obtain proper film thickness, if required. Trim excess fiberglass mat at fascia edge before application of topping.

7. Coverage:

Apply EP-ENDURO-LASTIC ELA Modified Polymer



Binder at a rate of 50 SF per gallon.

8. Limitations:

Ambient and surface temperatures must be above 55°F and relative humidity below 80%. Do not apply EP - ENDURO-LASTIC ELA Modified Polymer Binder over any type of lightweight concrete without written approval by Enduro Products. Do not apply to surfaces with excessive moisture content or when there is a threat of rain.

9. Cleaning Instructions:

Clean up tools and equipment with appropriate cleaning fluids after use.

10. Safety Health and Environmental Recommendations:

Provide proper ventilation. Avoid coating contact with skin and eyes. Use protective goggles and clothing. In case of eye contact, flood eyes with water and call a physician immediately. Wash hands thoroughly with soap and water after handling. Do not take internally. If

ingested, call a physician immediately. Read the Material and Safety Data Sheet for EP ENDURO-LASTIC ELA Modified Polymer Binder prior to handling or application as supplied by Enduro Products in California: (714) 526-5898, Fax (714) 526-6511; in Florida: (305) 591-8309, Fax (305) 591-8565; email: info@endurokote.com.

11. Warranty:

Enduro Products warrants its EP - ENDURO-LASTIC ELA Modified Polymer Binder to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Enduro Products makes no other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose with respect for Enduro Products. Enduro option, to replace or to refund the purchase price of the quantity of EP - ENDURO-LASTIC ELA Modified Polymer Binder proved to be defective and Enduro Products shall not be liable for any loss or damage.

Technical Data

TEST	REFERENCE	RESULTS
Weatherometer	ASTM D 1499 & G 152, Model D or H	2,000 Hours: No crazing, cracking, spalling, softening, or other surface deterioration.
Accelerated Aging	ASTM D 756, Procedures D & E, 6 Cycles; D, E, & F	No crazing, cracking, spalling, softening, or other surface 25 Cycles deterioration.
Bond Strength After Accelerated Aging	ASTM C 297 ASTM C 297, Procedures D, & E, 6 Cycles	Average 83 psi minimum.
After Accelerated Aging	ASTM D 756, Procedures D, E, & F, 26 Cycles	Average 82 psi minimum.
After Freeze Thaw	ASTM C 67	Average 104 psi minimum.
Abrasion Resistance	ASTM D 1242, Method A	Did not exceed maximum loss in thickness allowed.
Percolation		No noticeable leakage on each of 5 test specimens.
Water Absorption	ASTM D 570	8.7 percent by weight.
Chemical Resistance	ASTM D 2299	Unaffected By: Industrial detergent 20% solution, ammonia 5 % solution, salt 20% solution, anti-freeze, kerosene, turpentine, & paint thinner. Superficially Affected By: Chlorine 10% solution & sulfuric acid 3% solution. Moderately Affected By: Muriatic acid 10% solution.
Freeze Thaw	ASTM C 67	No breakage, weight loss, cracking, crazing, or delamination. Passed bond strength test requirements.
Concentrated Load		Average Residual Indentation: 0.009 inch.
Compressive Strength	ASTM C 109	5,450 psi.

