



TECHNICAL DATA

COATINGS SEALANTS MEMBRANES POLYUREAS EPOXIES PRIMERS



ELASTO-DECK BT 1000

INDUSTRIAL STRENGTH ELASTOMERIC MEMBRANE

PRODUCT DESCRIPTION:

ELASTO-DECK BT 1000 is a black, liquid applied, two-component, high solids, chemical cured, polyurethane coating designed to form a tough rubber membrane impervious to moisture. A two-component system which does not depend on atmospheric moisture to cure.

MANUFACTURER:

PACIFIC POLYMERS INTERNATIONAL, INC.
12271 Monarch Street
Garden Grove, CA 92841 USA
714/898-0025 FAX (714) 898-5687
<http://www.pacpoly.com>

BASIC USES:

Once cured, ELASTO-DECK BT 1000 allows expansion and contraction over a broad temperature range and maintains flexibility and waterproofing properties under continuous exposure to water above or below grade. ELASTO-DECK BT 1000 has a thixotropic consistency and may be used on vertical as well as horizontal surfaces. ELASTO-DECK BT 1000 waterproof membrane is intended for use on steel, wood, concrete, asphalt, tanks, ponds, roofs, foundations, etc.

WATER TANKS:

ELASTO-DECK BT 1000 has been used with outstanding success as a lining for non-potable water storage tanks. ELASTO-DECK BT 1000 fills and covers the crack and because of its flexibility, allows them to move with changes in temperature. The product is firmly bonded to the substrate so water cannot flow underneath the lining as it does with sheet lining materials. Also used as a joint filler for applications in water storage and sewage treatment environments. While ELASTO-DECK 1000 will resist exposure to chlorine, a floating device should be used to prevent direct contact of chlorine tablets to the cured membrane.

COLORS: Black only.

STANDARDS: A.S.T.M. C836-95.

MAINTENANCE:

If ELASTO-DECK BT 1000 is damaged, it can be repaired by cleaning the surface and recoating it with ELASTO-DECK BT 1000.

ADVANTAGES:

1. Applied by airless spray methods, brush, roller, squeegee or trowel.
2. ELASTO-DECK BT 1000 cuts cost of application by eliminating splicing, sealing tapes, adhesives and other labor consuming methods required when installing other conventional types of waterproofing systems.
3. The superior flexibility and elongation properties of ELASTO-DECK BT 1000 allows expansion and contraction with the substrate without cracking or becoming brittle.
4. ELASTO-DECK BT 1000 has excellent abrasion resistance for applications where there may be contact with floating debris.
5. May be applied over a variety of substrates including concrete, stone, brick, cement blocks, wood and metal.
6. Environmentally safe, complying with VOC standards.

INSTALLATION:

PRIMING: ELASTO-POXY PRIMER D & G is used to prime green concrete (more than seven day cure for normal structural concrete). It is also used to prime damp concrete, masonry, or wood surfaces on which the waterproofing membranes are to be applied, as well as on adequate cured and dry surfaces. Although ELASTO-POXY PRIMER D & G may be used on green concrete and damp surfaces, moisture may become trapped under the waterproofing membrane. This may result in blistering, particularly on warm, sunny days. Therefore, cover the membrane as soon as possible to minimize blistering. Blistering over 4" in diameter should be cut and patched with membrane.

CONCRETE: Utilizing Pacific Polymers ELASTO-POXY PRIMER D & G will allow the application of the ELASTO-DECK BT 1000 to be made on green concrete. Concrete must be free of any curing compounds or bond release agents. Existing concrete should be free from foreign matter, oil, greases, etc. Concrete sections shall require the removal of fins, ridges and other protrusions and patching of voids. Remove oil and grease with a commercial grade alkaline cleaner; thoroughly rinse and dry.

WOOD: All plywood to receive coating shall meet or exceed requirements for A-C plugged, exterior grade.

METAL: Metal surfaces shall be dry, clean, free of grease, oil, dirt, rust and corrosion. Other coatings and contaminants could effect bond of coating system.



EXISTING COATINGS:

In the case of an existing coating, it should be determined whether or not there will be compatibility and adhesion between the ELASTO-DECK BT 1000 and the existing coating system. This can be determined by applying a sample test patch to verify procedures for a successful application of the new coating system. If adhesion is proven to be poor, then removal of the existing coating is necessary.

JOB CONDITIONS:

Install coating materials under conditions where all of the following conditions are met.

1. Concrete has not been treated with any substance which will adversely effect adhesion or performance.
2. Rain is not expected within 8 hours of application.
3. Surface temperatures at time of application are above 40F(5C) and lower than 110F (44C). ELASTO-DECK BT 1000 can be applied in temperatures below 40F as long as the concrete is not frozen and does not have frost on it.
4. Positive ventilation for interior applications can be continuously supplied throughout application period and 8 hours after.
5. Open fires and spark producing equipment are not, and will not be, in application area until vapors have dissipated.

APPLICATION:

ELASTO-POXY PRIMER D & G may be applied to clean, dirt free, frost free, surfaces at a coverage rate of 250-350 sq. ft. per gallon. Do not apply to frozen concrete or to concrete with standing or visible water. Do not use during precipitous weather. Do not apply on wet surfaces or when rain is imminent, or when the surface may become wet prior to a full cure. Keep container tightly closed. Avoid contamination with water, make sure all application equipment is completely dry.

For use in constant submersion, the recommended thickness must be achieved in one day with as many coats as needed. On vertical surfaces at least two coats will be required to achieve a minimum of 60 dry mils.

Recoating must be done before first coat firms, but it must be done within 24 hours. If ELASTO-DECK BT 1000 has cured more than 24 hours, the surface must be roughened up and primed before reapplying.

ELASTO-DECK BT 1000 may be used in a single 60 mil application over sound surfaces without danger of gassing. Application must be made uniformly to avoid thin spots and care must be taken to avoid pinholes and repair them should they occur. Coverage to obtain 60 dry mils is 24 sq.ft./gallon. Protection board must be used prior to backfilling or pouring concrete.

WARNINGS AND HAZARDS:

Before using the products, always refer to MSDS for important warnings and safety information. Use only in areas with adequate ventilation. Avoid breathing vapors. Keep away from heat and flame. Avoid contact with eyes and skin. In the event of skin contact, remove immediately and wash with warm, soapy water. Wear suitable eye protection. Always wash hands before eating.

TECHNICAL SERVICES:

All of the latest updates to product data and specifications are available at the company website. Since product data and specifications change, it is the users responsibility to make certain the most current versions of product data and specifications are being used.

AVAILABILITY AND COST:

ELASTO-DECK BT 1000 is supplied through building material dealers. Major contractors are supplied directly from PACIFIC POLYMERS INTERNATIONAL, INC. Prices vary with quantity and packaging. Quotations are made upon request. These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer; those who choose to install these products without professional assistance do so at their own risk.

PRODUCT WARRANTY:

Satisfactory results depend not only upon quality products but also upon factors beyond our control; methods of application and site conditions are examples of such factors and can affect product performance. This warranty consequently extends only to products installed in strict accordance with the manufacturer's specifications. It is the users responsibility to satisfy himself, by his own information and tests, of the suitability of the product for his own intended use; user assumes all risk and liability resulting from his use of the product. The substrate to which the product is applied must be sound structurally and otherwise. Structural or substrate failures or imperfections resulting in damage to or failure of the product are not covered by this warranty. Since the use of the product is beyond the control of the manufacturer, the manufacturer assumes no liability for misapplication and misuse of the product. This warranty does not cover consequential damages, nor does it cover the labor attendant to replacing product in the event of a product failure. The warranty only extends to replacement of the product itself. All products proven to be defective in manufacture will be replaced at no charge. Since the use of these products is beyond our control we cannot assume any risk or liability for results obtained, nor can we accept damage in excess of the purchase price of these products.

TECHNICAL DATA - ELASTO-DECK BT 1000



PROPERTY	TEST METHOD	RESULTS
Mixing Ratio		9 A to 1 B by volume
Potlife at 77deg. F (1 quart mass)		1 hour
Density		
Component A		10.2 pounds per gallon
Component B		7.5 pounds per gallon
Mixed		9.97 pounds per gallon
Tensile Strength	ASTM D412, 50 mil Die-C	800 psi
Elongation	ASTM D412	350%
Tear Strength	ASTM D624 (Die-C)	130 PLI
Hardness (Shore A)	ASTM D2240	65 minimum
Abrasion Resistance	ASTM D4060 % wt. loss, CS-17 wheel 1000 grams/1000 cycles	1.2 mg
Adhesion to concrete	Elcometer	>350 PSI
Moisture Vapor Transmission	ASTM E96 procedure B	0.03 perms
Recovery from 100% extension	after 5 minutes	99%
	after 24 hours	100%
Solids	by volume	90%
Resistance to decay	ASTM E154	Surface membrane free from decay. Average % weight gain after 30 days was 0.10%
Water Absorption	ASTM D570	Negligible
Service Temperature		-60 deg.F to 180 deg.F
Elastomeric Waterproofing	ASTM C836	Meets or exceeds all test criteria
Crack Bridging		No Failure
(10 cycles at 15 deg.F)		No Cracking
Weathering	Q-Panel Weather-o-meter	>5000 hours
Softening Point	ASTM D36	>325 deg. F
Hydrostatic Pressure	ASTM D5385	>200 ft.
Resistance Intercoat Adhesion		>than adhesion to concrete
Shelf Life		1 year

(when stored indoors in cool and dry location at 77°F (25°C) in unopened containers)