



ELASTO-DECK B.T. RESERVOIR GRADE

INDUSTRIAL MEMBRANE WATERPROOFING SYSTEM COALTAR-FREE

1. PRODUCT NAME

ELASTO-DECK B.T. RESERVOIR GRADE

A liquid applied, single-component, moisture-cured polyurethane coating, designed to form a tough rubber membrane impervious to moisture. A two-component version of **The Elasto-Deck B.T. Reservoir Grade** is available, with a non-toxic catalyst, to reduce the tack free time of the membrane.

2. MANUFACTURER

PACIFIC POLYMERS INTERNATIONAL, INC.
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714/898-0025
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3. PRODUCT DESCRIPTION

Composition: Polyurethane elastomer.

Basic Uses: Once cured, **ELASTO-DECK B.T. RESERVOIR GRADE** allows expansion and contraction over a broad temperature range and maintains flexibility and waterproofing properties under continuous exposure to water. **ELASTO-DECK B.T. RESERVOIR GRADE** has a thixotropic consistency and may be used on vertical, as well as horizontal, surfaces. **ELASTO-DECK B.T. RESERVOIR GRADE** remains flexible from -75deg.F(-60C) to 175 deg.F (79C).

BASIC PROPERTIES

- *Monolithic Waterproofing
- *Potable Water Lining
- *U.V. Stability
- *Chemical Resistance
- *Corrosion & Abrasion Resistance

Monolithic Waterproofing: Once cured, **ELASTO-DECK B.T. RESERVOIR GRADE** allows expansion and contraction over a variety of substrates, including concrete, metal, and wood.

U.V. Stability: **ELASTO-DECK B.T. RESERVOIR GRADE** resists exposure to U.V. sun rays and, therefore, is appropriate for exterior applications. Some chalking may occur.

Chemical Resistance: **ELASTO-DECK B.T. RESERVOIR GRADE** displays resistance to some liquid chemicals. Specific testing is recommended prior to any installation. Chlorine and other water purification systems are not acceptable. Contact manufacturer for assistance.

Potable Water Lining: **ELASTO-DECK B.T. RESERVOIR GRADE** has been designed for use in lining concrete-based above and below grade reservoirs or storage tanks. When **ELASTO-DECK B.T. RESERVOIR GRADE** is correctly installed and firmly bonded to the substrate, water cannot flow underneath the lining as is the tendency with sheet lining materials.

Limitations: Containers that have been opened must be used within one or two days since **ELASTO-DECK B.T. RESERVOIR GRADE** is a moisture-reactive material. All surfaces must be dry and completely free of foreign matter. This coating will begin to cure when exposed to the humidity in the air.

Shelf Life: 12 months at 77 deg. F. (25C) in tightly sealed containers.

Advantages:

- A. **ELASTO-DECK B.T. RESERVOIR GRADE** is a single-component compound that may be

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used directly from the container with no mixing required.

B. No catalysts are necessary, as **ELASTO-DECK B.T. RESERVOIR GRADE** is a moisture-cured compound.

C. The **Elasto-Deck B.T. Reservoir Grade Two-Component** version, with the non-toxic catalyst, will reduce the tack free time of the coating, thereby, minimizing the likelihood of airborne contaminants or dust from becoming imbedded into the material.

D. Applied cold by spray methods, brush, roller, squeegees or trowel.

E. May be applied over concrete, stone, brick, cement blocks, wood, metal, and most other surfaces.

Concrete substrates require priming with **Elasto-Poxy Primer**. Some substrates may also require priming.

F. **ELASTO-DECK B.T. RESERVOIR GRADE** cuts cost of application by eliminating mixing, splicing, sealing tapes, adhesives and other labor consuming methods required when installing other membrane lining systems.

G. The superior flexibility and elongation properties of **ELASTO-DECK B.T. RESERVOIR GRADE** allows expansion and contraction with the substrate, and when installed properly, without cracking or becoming brittle.

H. **ELASTO-DECK B.T. RESERVOIR GRADE** is accepted for use with potable water and does not contain any potentially hazardous coal tar.

Color: Black and White

Standards: A.S.T.M. C836. Conforms to British Standards B.S. 6920 for use in contact with water intended for human consumption. **ELASTO-DECK B.T. RESERVOIR GRADE** is NSF certified for certain size installations. Contact manufacturer for assistance.

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.

4. TECHNICAL DATA (See Page 4)

5. INSTALLATION

ELASTO-DECK B.T. RESERVOIR GRADE is best applied by airless spray. However, if the project does not lend itself to spraying, it may also be applied by roller, brush or squeegee.

All cracks over 1/16" in width must be filled and covered with **ELASTO-THANE 227 RESERVOIR GRADE**. This product may be applied by caulking gun and spatula. There is no

need to wait for this product to cure before applying the **ELASTO-DECK B.T. RESERVOIR GRADE** since both materials are completely compatible.

A dry film thickness of 60 mils is recommended over concrete and block surfaces. Extremely porous substrates should be filled prior to coating or receive additional **ELASTO-DECK B.T. RESERVOIR GRADE**.

ELASTO-DECK B.T. RESERVOIR GRADE may be applied by airless spray, roller, brush or squeegee. The first coat of **Elasto-Deck BT Reservoir Grade** must be applied at a rate of 40 to 45 square feet per gallon or 30 mils. After a 24 hour cure, apply a second coat of **Elasto-Deck BT Reservoir Grade** at the same rate of 40 to 45 square feet per gallon to achieve a total dry film thickness of 60 mils. If required, to obtain 90 DFT, repeat after 24 hour cure.

Elasto-Poxy Primer must be utilized on concrete substrates at a rate of 300 sq.ft. (27.81 m²) per gallon.

6. AVAILABILITY AND COST

ELASTO-DECK B.T. RESERVOIR GRADE 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 on 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.

7. 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 damages in excess of the purchase price of these products.

8. MAINTENANCE

If **ELASTO-DECK B.T. RESERVOIR GRADE** is damaged, it can be repaired by cleaning the surface and recoating with **ELASTO-DECK B.T. RESERVOIR GRADE**.

9. TECHNICAL SERVICES

All of the latest updates to product data and specifications are available at the Pacific Polymers International, Inc. website at www.pacpoly.com. 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.

Technical assistance can be obtained by contacting:

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4-TECHNICAL DATA - ELASTO-DECK B.T. RESERVOIR GRADE

PROPERTY	TEST METHODS	RESULTS
Viscosity (poise @ 77F)	Brookfield Viscometer	60+/- 10 poise
Weight per gallon (pounds)		9.80 +/- 0.5
Percent solids content (%)	ASTM D-2369	
by weight		79%
by volume	72%	
Tensile Strength (psi)	ASTM D-412	600 +/- 50 psi
Percent Elongation (%)	ASTM D-412	300 +/- 50%
Tear Strength (pli)	ASTM D-624	100 +/- 15 pli
Hardness (Shore A)	ASTM D-2240	50 +/- 5
Adhesion to Peel (pli) (concrete)	ASTM D-903	50 pli
Moisture Vapor Transmission (grains per sq.ft. hr.)	ASTM E-96	2.1 grains
Water Absorption (% wt. gain)	ASTM D-471	1.2%