



PACIFIC POLYMERS

ELASTO-DECK B.T. H₂O

ELASTOMERIC WATERPROOFING MEMBRANE

UNIQUE WATER CURE CHEMISTRY

1. PRODUCT NAME

ELASTO-DECK B.T. H₂O

A black, liquid applied polyurethane coating, designed to form a seamless, flexible rubber membrane impervious to moisture.

Type 1: For horizontal surfaces

Limitations: Containers that have been opened must be used within one or two days since it is a moisture-reactive material. It sets up when exposed to air. All surfaces must be completely free of foreign matter and dry. Once **ELASTO-DECK B.T. H₂O** is mixed with water, it has to be used within 30 minutes.

Shelf Life: 6 months at 77°F (25°C) when stored indoors in cool and dry location.

2. MANUFACTURER

ER SYSTEMS (An ITW Company)
12271 Monarch Street
Garden Grove, CA 92841
Tel: 1-800-888-8340
Fax: (714) 898-5687

Advantages:

3. PRODUCT DESCRIPTION

Composition: Unique, water cured polyurethane elastomer for one day horizontal applications.

Basic Uses: Once cured, **ELASTO-DECK B.T. H₂O** allows expansion and contraction over a broad temperature range and maintains waterproofing properties under continuous exposure to water.

ELASTO-DECK B.T. H₂O remains flexible from -75°F to +175°F (-59°C to 79°C). **ELASTO-DECK B.T. H₂O** waterproof membrane is intended for use wherever overflow water must be contained.

Suggested areas of application are as follows:

1. Waterproofing in between concrete slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
2. Waterproofing inside planter boxes.
3. Waterproofing under terrazzo or tile floors.
4. Waterproofing under shower pans, kitchen, laundry and bathroom floors.
5. Waterproofing of occupied areas under malls, plazas and promenades.

A. ELASTO-DECK B.T. H₂O does away with the unpredictable cure times and potentially undesirable side reaction with atmospheric oxygen and provides a bubble free dense, non-gassing elastomer with a very positive, controlled cure rate, allowing extremely thick layers to be applied without the gassing and foaming expected of moisture cured urethanes under similar conditions.

B. The addition of a specific quantity of water on the job site, blended with the **ELASTO-DECK B.T. H₂O** is what provides this positive cure, in combination with the unique chemistry that eliminates the carbon dioxide from the curing membrane, creating a smooth, dense, waterproof elastomer. Very rapid cure rates are achieved as well. Cured films are tougher, more tack free, and have no cellular structure.

Standards: A.S.T.M. C836-89.

Sizes: 5-gallon pails.

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 chart on page 3)

5. INSTALLATION

Mixing Instructions:

Add a minimum of 1 quart of cold tap water to a maximum of 2 quarts per 5 gallon container of **ELASTO-DECK B.T. H₂O** on the job site immediately prior to application. Use 1 quart when ambient temperatures are lower than 60°F. From 60°F to 80°F, 1 quart to 2 quarts at the contractor's option.

Note: Do not apply if temperatures are below 55 °F or Above 90 °F.

Work life will decrease with increased amount of water. Add correct amount of water and mix into a 5 gallon container of **ELASTO-DECK B.T. H₂O** using a Jiffy mixer on a drill 300-600 R.P.M. Mix for 3-5 minutes and pour entire contents in an area matching the prescribed coverage rate. Resulting work life varies with temperature and amount of water used. At 77°F, using 1 quart of water, work life is about 30 minutes.

APPLICATION:

Apply **ELASTO-DECK B.T. H₂O** using a squeegee followed by back-roll using a roller or a porcupine roller.

All cracks over 1/16" (1.6mm) in width must be filled and covered with **ELASTO-DECK BT KNIFE GRADE or Elasto-Thane 230MP**. This product may be applied by trowel or caulking gun. Allow **ELASTO-DECK BT KNIFE GRADE** to cure prior to application with **ELASTO-DECK B.T. H₂O**.

A dry film thickness of 60 mils (1.5mm) is recommended over concrete surfaces. Extremely rough and porous substrates should be filled prior to coating or receive 90 dry mils. Some applications may require a Primer.

Flashing: Prime metal flashings with **DECKTHANE** Primer, Allow for a minimum 2-3 hour cure before coating.

ELASTO-DECK B.T. H₂O may be used in a single 60 or 90 mil (1.5mm) application over sound surfaces without danger of gassing. Application must be made uniformly to avoid thin spots. Due to the uneven profile of some concrete installations, it may be advisable to make two applications, which may often be done the same day, or as soon as the first coat is walk-able. Second coat of **ELASTO-DECK BT H₂O** must be applied within one day.

Coverage to obtain 60 dry mil is 23 sq. ft. /gallon. Where a two coats application is preferred, two coats at

46 sq. ft. /gallon per coat are to be applied, allowing a cure between coats.

90 dry mils require an application of 15.5 sq.ft./gallon, or two coats at 31 sq.ft. / Gallon per coat.

Protection board must be used prior to backfilling or pouring the concrete topping slab.

Priming: When priming is advisable, **ELASTO-POXY PRIMER VOC** or **Deck-Thane** Primer may be used at the coverage rate recommended in their data sheets.

Deck-Thane Primer should be used between coats should the time to apply second coat exceed 24 HOURS.

6. AVAILABILITY AND COST

ELASTO-DECK B.T. H₂O is supplied through building material dealers.

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 user's 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 did not obtain, nor can we accept damages in excess of the purchase price of these products.

versions of product data and specifications are being used.

Technical assistance can be obtained by contacting:

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8. MAINTENANCE

If **ELASTO-DECK B.T. H₂O** is damaged, it can be repaired by cleaning the surface, priming with **DECKTHANE Primer** and recoating it with **ELASTO-DECK B.T. H₂O**

9. TECHNICAL SERVICES

All of the latest updates to product data and specifications are available at www.pacpoly.com. Since product data and specifications change, it is the user's responsibility to make certain the most current

4. TECHNICAL DATA – ELASTO-DECK B.T. H₂O

Property	Test Method	Results
Viscosity (poise)	Brookfield Viscometer	20± 5
Weight per Gallon Pounds		9.2± 0.2 (4.2±0.1kg)
Percent Solids	Calculated	
Weight		90 ± 2
Volume		88 ± 2
Pot Life		30 minutes
Tack free Time (@ 77°F (25°C), 55% R.H.) ---		8-12 hrs
Hardness (shore A)	ASTM D2280	25 ± 5
Tensile Strength	ASTM D412	300 psi (2.07 N/m ²)
Tensile Modulus (100%)	ASTM D412	66 psi
Tensile Modulus (300%)	ASTM D412	161 psi
Percent Elongation	ASTM D-412	600% min.
Tear Strength (Die-C)	ASTM D-624	55 lb/in
Water Vapor Transmission	ASTM E-96	0.72 (grains/hr/sq.ft)
Adhesion to Concrete (primed)	ASTM D-903	8 lb/in (1.5kg/cm) film breaks without peel
Unprimed	ASTM C836	no peel, meets the requirement
Resistance to Decay	ASTM D-154	no surface defects
Flash Point	---	120°F (49°C)
Recovery (percent)	ASTM D-412	91%