



Product Data Sheet:

GacoPoly™
ELASTO-DECK BT H2O
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GACOPOLY™ ELASTO-DECK BT H2O WATER CATALYZED VOC COMPLIANT POLYURETHANE MEMBRANE

DESCRIPTION:

GacoPoly™ **ELASTO-DECK BT H2O** is a black, liquid applied, water catalyzed, polyurethane coating. It is designed to form a seamless, flexible waterproofing membrane impervious to moisture in one day for horizontal applications. Once cured, ELASTO-DECK B.T. H2O allows expansion and contraction over a broad temperature range and maintains water-proofing properties under continuous exposure to water.

USAGE:

- Waterproofing between elevated concrete slabs.
- Waterproofing for "Green Roof" (Roof Garden) applications.
- Waterproofing for Paver and Pedestal systems.
- Waterproofing of concrete, plywood, and metal substrates

LIMITATIONS:

All materials shall be delivered to the job site in unopened containers clearly marked and labeled. Containers that have been opened must be used up within one or two days since it is a moisture-reactive material. The material will cure when exposed to air. All surfaces must be completely free of foreign matter and primed, where necessary.

- Do not apply to contaminated surfaces.
- Not to be used as an exposed or wearing surface.
- Use with adequate ventilation.
- Do not use curing compounds to cure concrete
- Bond Breakers and Form Releases must be removed.
- All materials shall be delivered to the jobsite in unopened containers clearly marked and labeled. Containers that have been opened must be used up 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. Some substrates may require primer. (**ELASTO-POXY Primer VOC or DECK-THANE Primer**)

ADVANTAGES:

- **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 positive, controlled cure rate, allowing extremely thick layers to be applied without the gassing and foaming expected of moisture cured urethanes under similar conditions.
- 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.

PRODUCT DATA

Color	Black
Consistency	Thixotropic

APPLIED PRODUCT DATA

Weight Per Gallon	9.17 pounds (@77°F)
Odor	Mild aromatic odor
Pot Life	(@77°F) 30 minutes
Re-Coat Time	1-3 hours (@ 77°F, 50% RH min)
Consistency	Self-Leveling
Toxicity	Not certified or intended for use in direct contact with food or in potable water applications.
Flammability	(solid, gas) : No data available

PACKAGED PRODUCT DATA

Coverage	Coverage: 200-250 sq. ft. per gallon on rough surfaces. Up to 300 sq.ft. per gallon on smooth surfaces.
Solids Content	90% +/- 2% (Weight) 88% +/- 2% (Volume)
V.O.C.	81 grams per liter, EPA Method 24
Flash Point	49 °C (120°F)
Storage Stability	6 months in original unopened container. Protect from freezing in shipment and storage.

**SURFACE
PREPERATION**

- All surfaces must be clean and free of any oil, dirt, grease, and other contaminants which will interfere with adhesion of the coatings. Surfaces shall be left broom clean.
- **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 the second coat **exceeds 16 HOURS**.
- All cracks over 1/16" (1.6mm) in width must be filled and covered with **SM7120 PU** manufactured by **AMRIZE BUILDING ENVELOPE LLC**. This product may be applied by trowel or caulking gun. Allow **SM7120 PU** to cure overnight (12-16 hours minimum) prior to applying **ELASTO-DECK B.T. H₂O**.
- **Flashing:** Prime metal flashings with **ELASTO-POXY PRIMER VOC**, Allow for a minimum 2–3-hour cure (Not to exceed 8-hours) 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 B.T. H₂O** **must be applied within one day**.
- Protection board must be used prior to backfilling or pouring the concrete topping slab.
- **Metal/Metal Flashing:** Prime with **ELASTO-POXY PRIMER VOC**.

APPLICATION

Thinning	Thinning is not recommended.
Warnings and Hazards	▪ Before using the products, always refer to SDS 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.
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. - Once ELASTO-DECK B.T. H₂O is mixed with water, it has to be used within 30 minutes. - All substrate conditions and surfaces to be coated shall be subject to inspection and acceptance by Manufacturer and Applicator. Commencing of waterproofing work shall constitute acceptance.
Application	- Apply ELASTO-DECK B.T. H₂O using a notched squeegee followed by back-roll using a roller or a porcupine roller. - Coverage to obtain 60 dry mils is 23 sq.ft./gallon. 90 dry mils require an application of 15.5 sq./gallon, or two coats at 31 sq./ft. gallon per coat. - All detailing must be cured a minimum of 12 hours prior to the application of the membrane. Detailing should be wiped clean with Acetone prior to the application of the membrane. In some states, use of non-VOC compliant solvents shall be limited. Concrete - Concrete surfaces shall be trowel finished followed by a light brooming, left free of loose particles, ridges, projections, voids, and droppings that would interfere with the application of the coatings. - Concrete surfaces shall be water cured in lieu of curing compounds for a minimum of 28 days. If curing compounds are used, site adhesion test may be required. - If concrete is poured in metal pans or decks, they shall be vented to permit proper cure of concrete. - If vented pans are not available, then ELASTO-POXY PRIMER VOC must be used. This two-component epoxy primer is applied at 200-250 square feet per gallon. The primer must have enough time to cure tack-free before proceeding with the complete ELASTO-DECK B.T. H₂O System. At no time should any materials be applied over concrete surfaces having greater than 25% moisture content. - All surfaces to receive the ELASTO-DECK B.T. H₂O system shall be completely cleaned by grinding or Blastrac. - A minimum 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. Most applications will require a primer. - Prolonged exposure to UV is not recommended. Plywood - Use exterior grade plywood. - Plywood shall be at least 5/8" thick. (3/4" minimum preferred). Plywood decking needs to be coated as soon as possible to avoid plywood delamination. Some plywood substrates need to be primed with DECK-THANE PRIMER or ELASTO-POXY PRIMER VOC prior to applying the ELASTO-DECK B.T. H₂O. - All seams between plywood sheets and those between metal flashing and the plywood deck must be caulked flush and fabric reinforced with Tie-TEX 272 polyester fabric. Spot prime the

areas and after a minimum 2–3-hour cure (not to exceed 8 hours) embed (4" minimum) fabric into a stripe coat of **ELASTO-DECK B.T. H₂O** or **SM7120 PU** manufactured by **AMRIZE BUILDING ENVELOPE LLC**. The application of **ELASTO-DECK B.T. H₂O** can be made after a minimum overnight cure of the fabric reinforcement procedure.

Metal/Metal Flashing

All properly prepared metal surfaces shall be clean and free of any oil, rust or other contaminants that would affect bond of coatings. All metal flashing must be primed with **ELASTO-POXY PRIMER VOC**. Allow primer to cure a minimum 2–3-hours (not to exceed 8-hours)

90 mils with fabric

- **BASECOAT** - Within 10 minutes of mixing, uniformly apply 70 wet mils (23 sq.ft./gallon) of **ELASTO-DECK B.T. H₂O** over the primed substrate.
- Immediately install **Tie-TEX** fabric and use a spiked roller with medium pressure for an even lay of the mat, and elimination of air pockets. Allow it to absorb the **ELASTO-DECK B.T. H₂O** for 10-15 minutes at 77°F. Absorption will be faster at higher temperatures, and lower at lower temperatures.
- **Note:** Overlap the **Tie-TEX** fabric 4-6 inches and apply an additional 25-30 wet mils over the overlap area as well as the adjacent area.
- **SATURATE COAT** – After about 1 hour apply another 35 wet mils (45 sq.ft./gallon) of freshly mixed **ELASTO-DECK B.T. H₂O** over the **Tie-TEX** fabric (apply within 10 minutes of mixing). Make sure that no dry fabric is showing.
- Coverage must be made uniformly in order to achieve complete saturation of the **Tie-TEX** fabric.

120 mils with fabric

- **BASE COAT** – Within 10 minutes of mixing, uniformly apply 70 wet mils (23 sq.ft./gallon) of **ELASTO-DECK B.T. H₂O** over the primed substrate.
- Immediately install the **Tie-TEX** fabric and use spiked rollers with medium pressure for an even laying of the mat, and elimination of air pockets. Allow it to absorb the **ELASTO-DECK B.T. H₂O** for 10-15 minutes at 77°F. Absorption will be faster at higher temperatures and slower at lower temperatures.
- **Note:** Overlap the **Tie-TEX** fabric 4-6 inches and apply an additional 25-30 wet mils over the overlap area as well as the adjacent area.
- **SATURATE COAT** – After about 1 hour apply another 70 wet mils (23 sq.ft./gallon) of freshly mixed **ELASTO-DECK B.T. H₂O** over the **Tie-TEX** fabric (apply within 10 minutes of mixing). Make sure that no dry fabric is showing.

150 mils with fabric

- **BASE COAT** – Within 10 minutes of mixing, uniformly apply 90 wet mils (18 sq.ft./gallon) of **ELASTO-DECK B.T. H₂O** over the primed substrate.
- Immediately install the **Tie-TEX** fabric and use spiked rollers with medium pressure for an even laying of the mat, and elimination of air pockets. Allow it to absorb the **ELASTO-DECK B.T. H₂O** for 10-15 minutes at 77°F. Absorption will be faster at higher temperatures and slower at lower temperatures.
- **Note:** Overlap the **Tie-TEX** fabric 4-6 inches and apply an additional 25-30 wet mils over the overlap area as well as the adjacent area.
- **SATURATE COAT** – After about 1 hour apply another 90 wet mils (18 sq.ft./gallon) of freshly mixed **ELASTO-DECK B.T. H₂O** over the **Tie-TEX** fabric (apply within 10 minutes of mixing). Make sure that no dry fabric is showing.

	WITHOUT FABRIC: (Non-Reinforced in the field) <u>60 mils</u> ▪ MEMBRANE – Within 10 minutes of mixing, uniformly apply 70 wet mils (23 sq.ft./gallon), 60 dry mils, of ELASTO-DECK B.T. H₂O over the <u>primed</u> substrate. <u>90 mils</u> ▪ MEMBRANE – Within 10 minutes of mixing, uniformly apply 105 wet mils (15 sq.ft./gallon) 90 dry mils of ELASTO-DECK B.T. H₂O over the <u>primed</u> substrate. <u>120 mils</u> ▪ MEMBRANE – Within 10 minutes of mixing, uniformly apply 140 wet mils (11.5 sq.ft./gallon) 120 dry mils of ELASTO-DECK B.T. H₂O over the <u>primed</u> substrate. <u>150 mils</u> ▪ MEMBRANE – Within 10 minutes of mixing, uniformly apply 175-180 wet mils (9 sq.ft./gallon) 150 dry mils of ELASTO-DECK B.T. H₂O over the <u>primed</u> substrate Note: Depending on substrate slope, and profile, applications of ELASTO-DECK B.T. H₂O may need to be applied in two or more passes. If applied in multiple passes, the applications need to be made within 1-3 hours of the previous coat.
Maintenance	If ELASTO-DECK B.T. H₂O is damaged, it can be repaired by cleaning the surface, priming with DECK-THANE Primer and/or ELASTO-POXY PRIMER (VOC) and recoating with ELASTO-DECK B.T. H₂O .
Clean Up	Because of the difficulty in cleaning up or removing cured ELASTO-DECK B.T. H₂O , equipment and tools should be cleaned immediately after use with Acetone or similar VOC exempted solvents available in the market. Use only water-based hand cleaners for skin clean up.
Temperature Constraints	▪ Minimum application temperature is 55°F (4°C) and rising and more than 5°F above dew point. ▪ Contact Technical Service when substrates are over 90°F (32°C) or under 50°F (10°C). ▪ Avoid application when inclement weather is present or imminent. ▪ Do not apply to damp, wet, or contaminated surfaces.

For specific Safety and Health information, please refer to Safety Data Sheet.