



# Aqua-Proof™ MD-863

## Waterproofing & Crack Isolation Base Membrane

### Description:

Aqua-Proof™ is a liquid membrane of styrene /butadiene latex that provides an easy alternative for many roofing and waterproofing applications as a base membrane. This monolithic membrane provides excellent performance when used as a base coat over horizontal or vertical surfaces, and performs extremely well during continuous water immersion test. May be used under render and plaster, or between concrete slabs as a weather or vapor barrier.

### Meets Requirements for:

|                           |        |
|---------------------------|--------|
| ASTM D 6083:              | Yes    |
| Energy Star:              | N/A    |
| Miami-Dade County:        | N/A    |
| VOC Compliant (<100 g/L): | Yes    |
| SCAQMD:                   | Passes |
| AIM & OTC:                | Passes |

### Product Advantages:

- Can be applied to damp substrates.
- Excellent adhesion to asphalt surfaces.
- Water based, non-toxic, free of solvents.
- Quick drying, touch-dry in one hour.
- Highly flexible rubber coating.
- Excellent crack-bridging properties.
- Low V.O.C., volatile organic compound and non-flammable (< 50 g/L).
- High alkalinity resistance.
- Applies blue and dries in black color.

### Performance:

|   |     |
|---|-----|
| Tensile Strength<br>ASTM D 2370                     | N/A |
| Elongation ASTM D 2370                              | N/A |
| Wet Adhesion to concrete<br>ASTM ASTM C 794 / D 903 | N/A |
| Water Permeability<br>ASTM D 1653                   | N/A |
| Solar Reflectance<br>ASTM C 1549                    | N/A |

### Uses:

Aqua-Proof™ has proven excellent as a main waterproof coating or as part of a roofing system over a variety of substrates like modified asphalt membranes, built-up roofs, polyurethane foam, concrete surfaces, bonded tar, granulated shingles EPDM and TPO. Can be used as a waterproofing system in planters or below grade applications. Always have to be protected from UV radiation. May be used as a protection under tiles in wet areas such as bathrooms, food processing areas, balconies.

### Technical Data:

|                               |  |
|-------------------------------|--|
| Product Type:                 | Styrene Butadiene  |
| Solids (%):                   | 58 ± 2% by weight<br>52 ± 2% by volume   |
| Weight/Gallon:                | 9.30 ± 0.05lbs.<br>(4.22 ± 0.02kg.)  |
| Color:                        | Applies blue and dries Black   |
| Drying Time:<br>ASTM D1640    | To touch: 30-60 min<br>To recoat: 2-4 hrs  |
| Coverage:                     |  |
| On Concrete:                  | 83 ft. <sup>2</sup> /gal.<br>(7.75 m <sup>2</sup> /gal.) @<br>11 dry mils, 20 wet mils |
| Can Sizes:                    | 5 gallons<br>1 gallon  |
| Thinning:                     | Is not recommended   |
| Flash Point:                  | Non-flammable  |
| Viscosity:                    | 90 - 100 KU's  |
| Percent Pigment<br>by Weight: | 15 ± 2%  |
| VOC:                          | 4 g/L  |

Notice: The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.

F.D.S.: Available upon request.

### Surface Preparation:

Surface must be clean, sound, and free of dust or loose material. Remove all debris and old loose coatings by means of high-pressure water blasting or wire brushing. Any existing mildew on the surface must be completely killed and removed prior to the application of this product. Scrub mildewed surface with Drycoat Cleaner. Rinse completely and let dry.

### Roofing System Recommendations:

When used as a stand-alone product in the roofing system apply AquaProof™ at a rate of 80 ft.<sup>2</sup>/gal.

When used in combination with Polyester Fabric Mesh FM-222 apply Aqua-Proof to embed the polyester fabric at a rate of 40ft.<sup>2</sup>/gal.

#### In roofs with polyester mesh:

- 1<sup>st</sup> coat + mesh: Aqua-Proof™ 40 ft.<sup>2</sup>/gal.  
Install mesh and press down to saturate.
- 2<sup>nd</sup> coat: Urethanizer™ 40 p<sub>2</sub>/gal.

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#### In roofs without polyester mesh:

- 1<sup>st</sup> coat + mesh: Aqua-Proof™ 80 ft.<sup>2</sup>/gal.
- 2<sup>nd</sup> coat: Urethanizer™ 50 ft.<sup>2</sup>/gal.
- 3<sup>rd</sup> coat: Urethanizer™ 50 ft.<sup>2</sup>/gal.

### Floor System Recommendations:

In floor waterproofing system with mesh, apply a first coat of AquaProof™ at a rate of 50ft.<sup>2</sup>/gal. in systems without mesh apply at a rate of 80 ft.<sup>2</sup>/gal.

#### In interior floors without polyester mesh:

- 1<sup>st</sup> coat: Aqua-Proof™ 80 ft.<sup>2</sup>/gal.
- 2<sup>nd</sup> coat: Aqua-Proof™ 100 ft.<sup>2</sup>/gal.
- 3<sup>rd</sup> coat: Aqua-Proof™ 100 ft.<sup>2</sup>/gal.

#### In exterior floors with polyester mesh:

- 1<sup>st</sup> coat: Aqua-Proof™ 50 ft.<sup>2</sup>/gal.
- 2<sup>nd</sup> coat + mesh: Aqua-Proof™ 40 ft.<sup>2</sup>/gal.
- Install mesh and press down to saturate.
- 3<sup>rd</sup> coat: Aqua-Proof™ 100 ft.<sup>2</sup>/gal.

**Application Recommendations:**

For other applications use the recommended spreading rate of 80 ft.<sup>2</sup>/gal. Please consult technical Roofing & Waterproofing Solutions / Specifications system procedures for specific application.

**Weather:** Select a warm clear day for installation. Consult weather bureau if needed to ensure there is no forecast of rain. Do not apply product after 4:00 pm. Product must be kept rain free for at least 6 hours after application.

**Water ponding areas:** Areas where water may accumulate for more than 48 hours must be corrected by using roof drains or other means available. If surface level corrections must be made, use Lanco® Ultra Level™ UL-221 self-leveling underlayment or a cement mix with Lanco® Concrete Admixture CB-9000. See Ultra Level™ UL-221 product specifications.

**Repair joints, cracks and seams:** Make sure joints, cracks, seams and flashing are clean and dry. With a brush apply Aqua-Proof™ and a polyester weave over cracks, seams, flashing and around any standing objects about 2 inches to both sides, and let dry thoroughly 24 hours. Lanco Polyflex one-part urethane should be used instead.

**Concrete surfaces:** Repair holes or any weakened areas of concrete surface with good quality masonry cement mix using Lanco® CB9000 or CB4000 Admixture, or Lanco® Bonding Agent CB-950 as per product data application instructions and let dry. Apply concrete mix and let to cure.

**Metal surfaces:** Remove rust and prime non-galvanized metals with Lanco® Metal Master Primer™. For galvanized metals, use Lanco® Super Galvanized Primer™ SG-664. Replace loose fasteners. Old fasteners must be covered with Lanco® Siliconizer Elastomeric Crack Filler™ RC-230 or Lanco Polyflex one-part urethane, and let to dry for 24 hours.

**Polyurethane foam roofs:** Make sure surface is in good conditions, free of holes and cracks. If it's in optimum conditions proceed with application. Do not use over other 100% Silicone coatings.

**Asphalt membrane and built-up roofs:** Remove all loose mineral gravel and clean roof thoroughly. Repair cracks or joints with Lanco® Aqua-Proof™ MD-863 and Lanco® Polyester Weave MP-997, apply one coat of Lanco® Aqua-Proof™ MD-863 to the entire roof and let dry 24 hours to proceed. Do not use on pebbles gravel roofs.

**Asphalt shingles:** Roof must be clean and completely dry. Apply 2 coats of Lanco® Aqua-Proof™ MD-863 at a rate of 60 ft.<sup>2</sup> per gallon. Let dry 24 hours between coats. Be sure all tabs are completely sealed. If not, apply Lanco® Siliconizer Elastomeric Crack Filler™ RC-230 and Lanco® High Strength Polyester Weave MP-997 on tab joint and let dry 24 hours to proceed.

**Method of Application:**

Apply with a Lanco® 3/4" Nap Rough Surface Roller PA-568 or airless spray. Wait 24 hours between coats. Apply only when temperature is above 50°F (10°C). Do not apply if temperature is expected to drop below 50°F (10°C) before the coating has completely dried. Two full coats are generally needed for proper sealing. Always apply coats in different directions. Never thin or dilute from full strength.

**Recommended equipment:** Use an airless pump with pressure of 1,500 to 2,000 psi. A fluid delivery of 1 to 2 gallons per minute with a spray tip of 0.026 to 0.035 will be adequate. Wait 24 hours between coats. The hoses should be at least 3/8" inside diameter and of the high-pressure rate type. If the hose length is more than fifty feet, a larger inside diameter will be required.

**Cleanup:** Clean roller and equipment after use with warm soapy water.

**Drying time:** Approximately 60 minutes to touch. Cure time is controlled by thickness of the applied coating, relative humidity and temperature. Allow 24 hours between coats.

**Limited warranty:** The manufacturers liability in connection with the sale of this product extends only to the replacement price if it should fail to comply with quality standards or specifications. Protect from freezing.

**Warning!** Do not allow product to freeze. Do not store in temperatures above 105°F. Protective clothing and eyewear should be used during application of this product. Ensure that lid is tight and pail is upright and secure before transporting. Do not allow pail to roll as this may cause lid to loosen and allow leakage to occur. Transport product placed on top of a protective cloth in cargo area of vehicle to prevent damage from accidental spills.

**Cautions:** Contains styrene butadiene and acrylic resin. In case of eye contact, flush thoroughly with water. Do not rub eyes. In case of skin contact, flush area immediately with clean water. If swallowed, do not induce vomiting. Consult a physician immediately. Use only with adequate ventilation. Keep out of reach of children.

