



LIQUA-PLY™ BASE

Product Data Sheet

PRODUCT INFORMATION: LIQUA-PLY™ BASE is a 80% solids, UV resistant polyurethane resin, single component, moisture-triggered compound system for use with a reinforcing mat. The base coat is a high build elastomeric, which provide a seamless, highly flexible, liquid applied flashing or durable membrane yielding a water repellent surface that provides outstanding weatherability and preventative solutions for the renewal and maintenance of many types of flashing and penetration designs as well as roofs.

The base coat of the system is designed to be used in conjunction with an encapsulated reinforcement mat to provide total reinforcement. The base coat adheres to most roof surfaces without a primer.

RECOMMENDED USES & BENEFITS:

- Base coat in seamless reinforced membrane system in conjunction with Liqua-Ply™ Finish and USP™ PolyForcement or USP™ ReMAT 100 or 225.
- Base coat in seamless flashing system in conjunction with Liqua-Ply™ Flashing or Finish.
- Surfaced with LIQUA-PLY™ FINISH
- Conforms to irregular shapes and can be used for sealing around pipes and difficult roof penetrations
- Single component – no mixing required
- Fast curing, cold applied and resistant to chalking
- Will not foam in the presence of water, highly flexible, covers complex shapes easily.
- Contact U.S. Ply, Inc. for specific uses.

PRODUCT CHARACTERISTICS:

Finish: Viscous thixotropic liquid
Color: Black
Viscosity: 14,000 to 16,000 cps. (Brookfield)
Specific Gravity: 1.39
Weight: 11.4 lbs. /gal. +/- 2%
VOC: <190 grams/liter
Coverage: 1.5 – 2.0 gal. /sq per coat (nominal)

Drying Schedule: At 9.0 mils wet @ 50% RH

| | 50°F | 70°F | 110°F |
|------------------|---------|------------|-----------|
| To Touch | 4 hrs. | 2 -3 hr. | 30 min. |
| To Recoat | 1 day | 6 - 8 hrs. | 4- 6 hrs. |
| To Cure | 10 days | 7 days | 5 days |

Note: Drying time is temperature, humidity, and film thickness dependent.

Shelf Life: (Unopened) – 9 months from date of shipment
Flammability: Non-Flammable

| SUBSTRATE | Concrete | Smooth BUR | Modified Bitumen | EPDM | Metal |
|---------------|---|------------|------------------|------|-------|
| USE | Base Coat/Liquid Flashing | | | | |
| RATE | 2.5 gal/100 Sq. Ft. – 4.0 gal/100 Sq. Ft. per coat in accordance with rate requirements for guarantee term. Add 0.5 gal/square for granule surfaces. | | | | |
| PRIMER | *EPDM requires the use of Liqua-Ply WB EPDM Primer. Some concrete and metal surfaces such as aluminum, stainless & copper require the use of Liqua-Ply Urethane Primer. | | | | |

SHIPPING INFORMATION:

| Container Size | Gross Weight | Class |
|----------------|--------------|-------|
| 3.5 Gal. | 43 Lbs. | 55 |

D.O.T. Classification: Roof Coating, Not Regulated

| HMIS: | Health | 1 |
|-------|--------------|---|
| | Flammability | 1 |
| | Reactivity | 0 |
| | Protection | X |

PERFORMANCE CHARACTERISTICS

Physical Properties:

| PHYSICAL PROPERTY | TYPICAL VALUE | TEST METHOD |
|--------------------------------|----------------------------------|---------------|
| Solids Content By Weight: | 80% ± 2% | (ASTM D-1644) |
| Solids Content By Volume: | 77% ± 2% | (ASTM D-2697) |
| Tensile Strength: | 265 psi ± 25 | (ASTM D-412) |
| Elongation: | 225% ± 25 | (ASTM D-412) |
| Peel Strength of adhesive bond | 16.6 pli | (ASTM D-903) |
| Shore A Hardness | 85 | (ASTM D-2240) |
| Fungal Resistance | No growth | (ASTM G-21) |
| Accelerated Weathering | No degradation after 1,000 hours | (ASTM G-154) |
| Permeability | Non-breathing | (ASTM E-1653) |
| Indentation Hardness | 84 durometer units | (ASTM D-2240) |
| Flexibility, ½" mandrel, -15°F | Pass 180° Bend | (ASTM D-522) |

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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APPLICATION PROCEDURES

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TEMPERATURE

Air and Surface: 40°F Minimum/120°F Maximum

Material: 50°F Minimum/110°F Maximum

RELATIVE HUMIDITY: Can be applied at relative humidity up to 80%.

DO NOT APPLY WHEN TEMPERATURE CAN FALL TO WITHIN 5°F OF THE DEW POINT WITHIN 6 HOURS.

This product is a moisture triggered cure only. It is very important that this product is not used when ambient and/or surface temperature is below 40°F (5°C), when rainfall is imminent (within 24 hours), or when freezing temperatures (ambient and/or surface) are expected before the coating is allowed to cure.

SURFACE PREPARATION: Surface to be coated must be clean, dry, and paintable. Remove loose granules and other debris should be removed by sweeping or vacuum. All dirt, grease, asphalt, loose particles, grime and film should be removed before applying the base coat.

DETAIL FLASHING: Apply LIQUA-PLY™ BASE by roller or brush to the dimension specified in the applicable detail drawing. Cut USP™ PolyForcement or USP™ ReMat 100 to the appropriate dimensions and lay into the coating (avoiding wrinkles) while the base coat is still wet. Additional coating should be rolled through the top of the mat to fully encapsulate the reinforcement. If an area requiring reinforcement is larger than the 10" mat size, either overlap additional lengths by a minimum of 3 inches or use a larger width cut to the proper size.

For pipe penetrations, trim reinforcement material by making "finger cuts" in order to wrap the pipe without wrinkles and embed in the base coat. Follow with a "target" patch of reinforcement fully embedded in the base coat.

Before the base coat begins to dry, apply an additional coat of LIQUA-PLY™ BASE to fully encapsulate the reinforcement. It is important that the coating penetrate the reinforcement without allowing voids or air gaps.

COATING APPLICATION INSTRUCTIONS: Apply LIQUA-PLY™ BASE at the rate of 2.5 gallons to 4.0 gallons per 100 square feet per coat using a brush or roller over the properly prepared substrate. (Do not apply direct to any substrate without a proper compatible primer over masonry, EPDM, PVC or metal surfaces.)

While the base coat is still wet, one layer of USP™ ReMAT 100 or USP™ ReMAT 225 should be loose laid over the coated surface and rolled in. Before the coating begins to dry, apply an additional coat of LIQUA-PLY™ BASE to fully encapsulate the reinforcement. It is important that the coating penetrate the reinforcement without allowing voids or air gaps.

Do not apply coating too far ahead of the reinforcement to ensure that the reinforcement can be fully embedded while the coating is wet.

It is recommended to coat the roof perimeter areas first (walls, curbs, etc.), beginning at the wall or roof edge. Adjacent lengths of reinforcement should have a minimum of 3 inch overlap on all sides. When overlapping lengths of reinforcement, add additional coating on the edge to ensure appropriate embedment at the overlap.

BRUSH: No reduction necessary. Use nylon/polyester brush. Avoid excessive brushing which may cause reinforcement to pull or wrinkle.

ROLLER: No reduction necessary. Use 1/2" to 1-1/2" nap synthetic rollers. Keep a wet edge to avoid ripping which may change appearance. If ripping is a problem, extend lap time to after material has skinned. Avoid rapid rolling which causes bubbling of material.

Cleanup Instructions: Clean up tools, spills and spatters immediately with petroleum solvents such as mineral spirits.

Ponding Water: For ponding water areas apply two coats of LIQUA-PLY™ FINISH at the rate of 2.0 gallons per 100 square feet per coat over the base coat. Allow each coat to dry before applying the second coat. Please consult U.S. Ply, Inc.'s Technical Department for any specific questions regarding the application of this product.

SAFETY PRECAUTIONS: Do not get on skin or in eyes. Can cause severe burns. Wear protective eye and skin coverings. Refer to the MSDS sheet before use. For Chemical emergencies, spills, leaks, exposure, or accidents CALL: CHEMTREC DAY/NIGHT 1-800-424-9300.



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