



LIQUA-PLY™ FINISH

Product Data Sheet

PRODUCT INFORMATION: LIQUA-PLY™ FINISH is a 83% solids, UV resistant polyurethane resin, single component, moisture-triggered compound system for use as a top coat in conjunction with LIQUA-PLY™ BASE and LIQUA-PLY™ FLASHING. The finish 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 a highly reflective white finish that meets initial reflectivity requirements for California Title 24 and Energy Star™.

RECOMMENDED USES & BENEFITS:

- Finish coat in seamless flashing system in conjunction with Liqua-Ply™ Flashing.
- Finish coat in seamless membrane system in conjunction with Liqua-Ply™ Base and USP™ PolyForcement or USP™ ReMat 100 or 225.
- 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: White
Viscosity: 15,000 to 18,00 cps. (Brookfield)
Specific Gravity: 1.37
Weight: 11.6 lbs. /gal. +/- 2%
VOC: <228 grams/liter
Coverage: 1.0 – 1.5 gal. /sq per coat (nominal)

SUBSTRATE	Concrete	EPDM	Smooth BUR	Modified Bitumen	Metal
USE	Finish Coat/Liquid Flashing				
RATE	1.0 gal/100 Sq. Ft. – 1.5 gal/100 Sq. Ft. per coat in accordance with rate requirements for guarantee term.				

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

SHIPPING INFORMATION:		
<u>Container Size</u>	<u>Gross Weight</u>	<u>Class</u>
3.5 Gal.	43 Lbs.	55
D.O.T. Classification: Roof Coating, Not Regulated		
HMS:	Health	1
	Flammability	1
	Reactivity	0
	Protection	X

PERFORMANCE CHARACTERISTICS

Physical Properties: Meets or exceeds ASTM D7311 and the following:

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Solids Content By Weight:	83% ± 2%	(ASTM D-1644)
Solids Content By Volume:	74% ± 2%	(ASTM D-2697)
Tensile Strength:	800 psi ± 25	(ASTM D-412)
Elongation:	400% ± 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)
Solar Reflectance Index:	102	(ASTM E-1980)
Reflectivity (White):	82%	(ASTM C-1549)
Emissivity (White):	.89	(ASTM C-1371)
Accelerated Weathering	No degradation after 5,000 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.

LIQUA-PLY™ FINISH

Product Data Sheet

APPLICATION PROCEDURES

LIQUA-PLY™ FINISH

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™ FINISH by roller or brush directly over the LIQUA-PLY™ BASE or LIQUA-PLY™ FLASHING. No priming is necessary. Base coat must be dry and ready to receive the finish coat.

Additionally the finish may be textured by casting USP™ Roofing Granules in a wet coat of the LIQUA-PLY™ FINISH.

COATING APPLICATION INSTRUCTIONS: Apply LIQUA-PLY™ FINISH at the rate of 1.0 gallons to 1.5 gallons per 100 square feet per coat using a brush or roller over the properly prepared base coat. A general guide is to apply to such a rate that the base coat is no longer visible. Nominally, this will produce a wet mil thickness of about 20 mils and will yield approximately a 15 mil dry film thickness.

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.



Pioneered with performance in mind...Engineered to stand the test of time.

Corporate Headquarters

P.O. Box 11740, Fort Worth, Texas 76110

TOLL-FREE: 877-62USPLY (877) 628-7759

Local: (817) 413-0103 • Fax: (817) 413-8221

Website: www.usply.com • Email: sales@usply.com

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.