

# USP™ BLEEDBLOCK ACRYLIC COATING

## Product Data Sheet

**PRODUCT INFORMATION:** USP™ BLEEDBLOCK is a single component, low viscosity, high-body, 63% solids emulsion polymer, based on pure acrylic polymer. USP™ BLEEDBLOCK is specially designed for use as a base coat for smooth BUR, modified bitumen and asphaltic cap sheet surfaces in conjunction with USP™ ENERGYBRITE, USP™ ENERGYKOTE, or USP™ ENERGYMAX.

### RECOMMENDED USES:

- As a barrier to ultraviolet light to prevent the degradation of the roofing materials.
- For resistance to asphalt staining (“bleed through”).
- As a base coat over asphaltic roofing substrates including new and aged built-up asphalt and modified bitumen.
- Contact U.S. Ply, Inc. for specific uses.

### PRODUCT CHARACTERISTICS:

**Finish:** Satin  
**Color:** Eggshell  
**Viscosity:** 115 ± 5KU @ 77°F (nominal)  
**Specific Gravity:** 1.37  
**Weight:** 11.4 lbs./gal.  
**VOC:** <50 grams/liter  
**Recommended Spread Rate:** 75 sq. ft./gal. per coat (nominal)



### SHIPPING INFORMATION:

| Container Size | Gross Weight | Class |
|----------------|--------------|-------|
| 5 Gal.         | 58 Lbs.      | 55    |
| 55 Gal.        | 644 Lbs.     | 55    |

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

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

### Drying Schedule: At 75 sq. ft./gal.

|                  | 50°F    | 70°F    | 110°F   |
|------------------|---------|---------|---------|
| <b>To Touch</b>  | 4 hrs.  | 2 hr.   | 45 min. |
| <b>To Recoat</b> | 1 day   | 6 hrs.  | 4 hrs.  |
| <b>To Cure</b>   | 30 days | 20 days | 10 days |

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

## PERFORMANCE CHARACTERISTICS

### Physical Properties:

| PHYSICAL PROPERTY         | TYPICAL VALUE | TEST METHOD   |
|---------------------------|---------------|---------------|
| Solids Content By Weight: | 63% ± 2%      | (ASTM D-1644) |
| Solids Content By Volume: | 49% ± 2%      | (ASTM D-2697) |
| Tensile Strength:         | 100 psi ± 25  | (ASTM D-2370) |
| Elongation:               | 700% ± 25%    | (ASTM D-2370) |

**Shelf Life:** (Unopened) – 12 months from date of shipment

**Flammability:** Non-Flammable

**DO NOT FREEZE**

| PROPERTY                             | TEST PROCEDURE | RESULT   |
|--------------------------------------|----------------|--|
| Accelerated Weathering UV Resistance | ASTM G-53      | No degradation after 1,000 hours   |
| Permeability                         | ASTM D-1653    | 3.0 perms at 20 mils   |
| Low/High Temperature                 | ASTM D-822     | Films retained their ability to be flexed 180° without cracking at temperatures from -15°F to 130°F with no age hardening or slump |

**Curing Precautions:** If moisture settles on uncured USP™ BleedBlock for a period of time, a brown residue may form on the surface. While this residue will not affect the performance of the cured film, it must be removed prior to applying an additional coat of USP™ BleedBlock.

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

#### USP™ BLEEDBLOCK

#### TEMPERATURE

Air and Surface: 50°F Minimum/140°F Maximum  
Material: 50°F Minimum/100°F Maximum

#### RELATIVE HUMIDITY

Can be applied at relative humidity up to 90%.

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

This product cures by water evaporation only. It is very important that this product is not used when weather conditions are below 50°F or when there is a chance that the temperature could fall below 32°F within a 24 hour period after application. Do not apply this product if rain or dew is likely to occur before drying of product. Late afternoon application is not recommended if high humidity conditions exist, which could cause high moisture concentration of the surface overnight.

**BRUSH:** No reduction necessary. Use nylon/polyester brush. Do not over-brush as material may start to pull.

**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 materials have skinned. Avoid rapid rolling which causes bubbling.

#### AIRLESS SPRAY-VOLUME:

Output: 2 – 3 gal. per min.  
Pressure: 3,000 – 4,000 psi  
Spray Gun: Graco – Contractor rated for pressure  
Tip: .021 -.025 reversible  
Extension: 12" gun extension recommended

#### SPECIAL CONDITIONS

##### Mildew:

- Must be removed by power washing and broom scrubbing with a solution of household bleach or liquid detergent and water. Rinse clean and dry.

##### Ponding Water:

- **U.S. Ply, Inc.'s Warranties do not cover damage due to ponding water.**
- Water based coatings should not be applied on roofs collecting ponding water. The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).
- Do not use without a vapor barrier in cryogenic tank or cold storage roofing applications.

**Surface Preparation:** All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application specification for more details.

**Mixing Procedures: No thinning or reducing is necessary.** Product may separate after shipping and storage, though it may still look mixed. When mixing becomes necessary we recommend the use of a 3/4 horsepower or larger electric or air operated mixer with a blade capable of uniformly mixing the entire container. When product is in 5-gallon pails, use a 3" minimum diameter-mixing blade. When product is in drums, use a 6" minimum diameter-mixing blade.

**Application Equipment:** This product may be sprayed, brushed, or rolled. When using spray equipment, it is important that the following criteria are met: When using a spray pump, a 30:1 or 45:1 fluid to air ratio capable of delivering 2 1/2 gallons or more per minute continuous is needed, as well as a filter screen of 30 mesh or larger. If a fluid spray hose is used, it should be high pressure with designed working pressure to handle maximum pressure delivered by the spray pump. Inside lining or tube should be of such a material so it is unaffected by the coating and any solvents used for clean up. Additionally, the following criteria should be used for hoses: 3/8" minimum I.D. up to 75 feet; 1/2" minimum I.D. up to 200 feet; and 3/4" minimum I.D. over 200 feet. Material temperature should be 70°F or higher. The larger I.D. sections of hose should be used from the pump out in all circumstances with additional hose size reductions as necessary.

If a gun hose whip is used, high pressure with adequate W.P.S.I. 3/8" I.D. X 6 feet with an appropriate lining or tube is recommended. When using a spray gun, we recommend the Graco Hydra Max or equivalent. High-pressure gun swivels are available and can reduce operator fatigue. Any spray tip should be a reversible self-cleaning type with an orifice size of .021 to .025 with a fan angle of 40 to 50 degrees. Always use components rated for pump pressures.

**Cleanup Instructions:** Clean up spills and spatters immediately with water. After cleaning, flush spray equipment with water followed by propylene glycol to prevent unit from rusting.

**SAFETY PRECAUTIONS:** 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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