

USP™ ALL SEASON ASPHALT STAIN BLOCKER

Product Data Sheet

PRODUCT INFORMATION: USP™ ALL SEASON ASPHALT STAIN BLOCKER is a 52% solids, high performance, polymer based, stain blocking base coat used to coat over asphaltic surfaces. USP™ ALL SEASON ASPHALT STAIN BLOCKER dries by evaporation, leaving a non-breathing base coat for smooth BUR, modified bitumen and asphaltic cap sheet surfaces in conjunction with USP™ ALL SEASON COATINGS.

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: Aluminum

Viscosity: 7,000 – 12,000 cps @ 77°F (nominal)

Weight: 9.1 lbs. /gal.

VOC: < 540 grams/liter

Recommended Spread Rate: 1 – 1.5 gal per square per coat (nominal)

Drying Schedule: At 12.0 mils wet @ 50% RH

	<u>50°F</u>	<u>70°F</u>	<u>110°F</u>
To Touch	4 hrs.	2 hr.	30 min.
To Recoat	8 hrs.	4 hrs.	2 hrs.
To Cure	72 hrs.	48 hrs.	24 hrs.

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

Shelf Life: (Unopened) – 18 months from date of shipment

Flammability: Non-Flammable



SUBSTRATE	Smooth BUR	Smooth Modified Bitumen	Granule Modified Bitumen
USE	BASE	BASE	BASE
RATE	1.00 - 1.25 gal / 100 Sq. Ft.	1.00 – 1.25 gal/ 100 Sq. Ft.	1.5 gal / 100 Sq. Ft.

Note: Allow a minimum of 30 days weathering of modified bitumen and other asphaltic surfaces to prevent asphalt bleed through. See application specification for more details.

SHIPPING INFORMATION:

<u>Container Size</u>	<u>Gross Weight</u>	<u>Class</u>
5 Gal.	47 Lbs.	55
55 Gal.	540 Lbs.	55

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

HMIS:	Health	Flammability	Reactivity	Protection
	1	0	0	X

PERFORMANCE CHARACTERISTICS

Physical Properties:

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Solids Content By Weight:	52% ± 2%	(ASTM D-1353)
Solids Content By Volume:	39% ± 2%	(ASTM D-2697)
Tensile Strength:	1600 psi ± 25	(ASTM D-2370)
Elongation:	225% ± 25%	(ASTM D-2370)
Accelerated Weathering	No degradation after 1,000 hours	(ASTM G-53)
Permeability	Non-breathing	(ASTM D-1653)

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.

USP™ ALL SEASON ASPHALT STAIN BLOCKER

Product Data Sheet

APPLICATION PROCEDURES

USP™ ALL SEASON ASPHALT STAIN BLOCKER

TEMPERATURE

Air and Surface: 30°F Minimum/120°F Maximum

Material: 70°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 flashing solvents. It is very important that this product is not used when weather conditions are below 20°F or when there is a chance that the temperature could fall below 20°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. This product should only be applied with a working material temperature of at least 70°F. A heating band is recommended at all times to maintain optimum spray ability.

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: 2.5 – 3 gal. per min.

Fluid Working Pressure: 4,500 – 7,400 psi

Spray Gun: Graco – Contractor rated for pressure

Fan/Tip: 12/.021 -12/.037 reversible

Extension: 12" – 36" gun extension recommended

SURFACE PREPARATION: Surfaces to be coated must be clean, dry, paintable and free of foreign materials, oils, grease and other contaminants that may affect the bonding of the coating. It may be necessary to power wash and/or prime to enhance adhesion. Allow a minimum of 30 days weathering of modified bitumen and other asphaltic surfaces to prevent asphalt bleed through. See application specification for more details.

Ponding Water:

- **U.S. Ply, Inc.'s Warranties do not cover damage due to ponding water.**
- Coatings should not be applied on roofs collecting ponding water which stands longer than 48 hours. The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).
- Please consult U.S. Ply, Inc.'s Technical Department for any specific questions regarding the application of this product.

Mildew:

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

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 45:1 or greater fluid to air ratio capable of delivering 2-1/2 gallons or more per minute continuous is needed, as well as an aluminum window screen. 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. The larger I.D. sections of hose should be used from the pump out in all circumstances with additional hose size reductions as necessary. Material temperature should be 70°F or higher. In colder temperatures, material may require thermal assistance, such as a heated hose or a band heater(s) to maintain the minimum material temperature.

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 .037 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 biodegradable citrus cleaning products. After cleaning, flush spray equipment with USP All Season Cleaning Solvent

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.



Corporate Headquarters

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

TOLL-FREE: 866-PUSH-PLY (866) 787-4759

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.