

USP™ ALL SEASON SEBS ROOF COATING

Product Data Sheet

PRODUCT INFORMATION: USP™ ALL SEASON SEBS ROOF COATING is a high performance, 50% solids, oil-based elastomeric fluid applied coating for spray, brush, or roller application. USP™ ALL SEASON SEBS ROOF COATING forms a non-breathing, high strength and a highly elastic membrane which is designed to provide heat reduction, cold weather flexibility, chemical, weather and water resistance. Its bright white finish helps reduce surface temperatures thereby minimizing thermal expansion and contraction while providing long-lasting and preventative solutions for the renewal and maintenance of many roof types.

RECOMMENDED USES:

- As an intermediate coat and/or top coat over smooth BUR, modified bitumen, metal, aged TPO and select aged PVC.
- ENERGY STAR® qualified reflectivity can significantly lower roof surface temperatures.
- Listed with the Cool Roof Rating Council for solar reflectance and thermal emittance - help reduce energy cooling cost.
- SRI Index = 108.9 exceeding criteria for LEED Credit: SS Credit 7.2: Heat Island Effect: Roof 1 Point, Option 1.
- Always use in conjunction with the appropriate USP ALL SEASON base coats.
- Contact U.S. Ply, Inc. for specific uses.

PRODUCT CHARACTERISTICS:

Finish: Satin

Color: White

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

Weight: 9.1 lbs. /gal.

VOC: < 548 grams/liter

Recommended Spread Rate: 1 gal – 1.75 gal per square per coat (nominal)

Drying Schedule: At 12.0 mils wet @ 50% RH

	50°F	70°F	110°F
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

SHIPPING INFORMATION:

Container Size	Gross Weight	Class
5 Gal.	47 Lbs.	55
55 Gal.	540 Lbs.	55

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

HMIS:		
Health		1
Flammability		0
Reactivity		0
Protection		X

SUBSTRATE	Smooth BUR	Modified Bitumen	Metal	Aged TPO
USE	Intermediate Coat/Top Coat			
RATE	1 gal/100 Sq. Ft. – 1.75 gal/100 Sq. Ft. in accordance with rate requirements for warranty term.			



PERFORMANCE CHARACTERISTICS

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Solids Content By Weight:	50% ± 2%	(ASTM D-1353)
Solids Content By Volume:	37% ± 2%	(ASTM D-2697)
Tensile Strength:	1600 psi ± 25	(ASTM D-2370)
Elongation:	600% ± 25%	(ASTM D-2370)
Solar Reflectance Index:	108.9	(ASTM E-1980)
Reflectivity (White):	87%	(ASTM C-1549)
Emissivity (White):	.88	(ASTM C-1371)
Accelerated Weathering:	No degradation after 1,000 hours	(ASTM G-53)
Permeability:	Non-breathing	(ASTM D-1653)
Low/High Temperature:	Films retained their ability to be flexed 180° without cracking at temperatures from -15°F to 185°F with no age hardening or slump	(ASTM D-822)

CRR	Initial		Weathered	
	Solar Reflectance	0.87	Pending	Pending
Thermal Emittance	0.88	Pending	Pending	
Rated Product ID Number	0 0 0 4			
Licensed Seller ID Number	0 8 7 2			
Classification	Production Line			

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.
Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

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: 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. 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.

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

SPECIAL CONDITIONS

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.

Mildew:

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

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.

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 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 heated hoses or band heaters 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.

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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.