

USP™ ALL SEASON METAL PRIMER

Product Data Sheet

PRODUCT INFORMATION: USP™ ALL SEASON METAL PRIMER is a tough, solvent-based primer which provides a high-quality rust inhibitive water-repellent surface that resists microorganisms, oxidation and dirt build-up once it has cured.

RECOMMENDED USES:

- As a rust inhibitor primer for use over all types of metal surfaces, including iron and steel, especially where corrosion is a problem.
- As a bond enhancing primer for USP ALL SEASON Coatings.
- Contact U.S. Ply, Inc. for specific uses.

PRODUCT CHARACTERISTICS:

Finish: Flat

Color: Yellow

Viscosity: 4,000 – 7,000 cps @ 77°F (nominal)

Specific Gravity: 1.13

Weight: 9.4 lbs/gal

VOC: <630 grams/liter

Recommended Spread Rate: Primer: 0.5 – 0.67 gal/100 sq. ft (nominal)
(100 – 200 sq. ft. /gal)

Drying Schedule: At 8.0 wet mils @ 50% RH

	<u>50°F</u>	<u>70°F</u>	<u>110°F</u>
To Touch	4 hrs.	2 hrs.	30 min.
To Recoat	24 hrs.	18 hrs.	8 hrs.
To Cure	24 hrs.	18 hrs.	12 hrs.

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

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

Flammability: Combustible

SHIPPING INFORMATION:

<u>Container Size</u>	<u>Gross Weight</u>	<u>Class</u>
5 Gal	49 Lbs.	55
55 Gal.	552 Lbs.	55

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

HMIS:	Health	1
	Flammability	3
	Reactivity	0
	Protection	X

THIS PRODUCT IS COMBUSTIBLE



PERFORMANCE CHARACTERISTICS

Physical Properties:

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Solids Content By Weight:	41% ± 2%	(ASTM D-1644)
Solids Content By Volume:	28% ± 2%	(ASTM D-2697)

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/140°F Maximum
Material: 70°F Minimum/110°F Maximum

RELATIVE HUMIDITY

This product is moisture sensitive. Do not apply when it is raining or if the threat of rain exists. Can be applied at relative humidity up to 93%. Do not apply when the dew point is less than 5°F below the ambient temperature.

ROLLER: No reduction necessary. Use solvent resistant roller, keep a wet edge for best results.

AIRLESS SPRAY-VOLUME:

Output: 1/2 gal per min.
Pressure: 2,000 psi
Spray Gun: High volume rated for pressure
Tip: .013 -.015 reversible
Extension: 12" – 18" 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.**
- These as all 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.

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 applied directly to any clean, dry surface. It may be necessary to power wash to enhance adhesion. See application specification for more details. Material is not compatible with grease and/or oil. If any contamination of a thoroughly cured surface occurs, it must be washed with TSP or commercial degreaser before applying subsequent coats. Subsequent coats and/or topcoats should be applied the same day within 4 hours of application to insure full and uniform adhesion. Plan work to include priming and finishing in the same day.

Application Rates: Substrate should be coated until it appears wet. Care should be taken not to flood or over apply primer. Yield is 200 to 300 square feet per gallon (1/2 to 1/3 gallon per 100 square feet) depending on the porosity of the substrate. Note: Over corrugated and irregular metal surfaces, allow for additional surface area by multiplying total square feet by 1.15.

Application Equipment: This product may be brushed, rolled or sprayed. When using spray equipment, it is important that the following criteria are met: When using a spray pump, a 10:1 fluid to air ratio capable of delivering 1/2 gallon or more per minute continuous is needed, as well as a filter screen of 30 mesh or smaller. 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: 1/2" minimum I.D. up to 75 feet; 3/8" minimum I.D. up to 400 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.

If a gun hose whip is used, high pressure with adequate W.P.S.I. 1/4" 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 .013 to .015 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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