

# USP™ ENERGYPRIME

## (ZINC CHROMATE PRIMER)

### Product Data Sheet

**PRODUCT INFORMATION:** USP™ ENERGYPRIME is a tough, rust inhibiting zinc-chromate combined with zinc-oxide, red iron oxide and alkyd resin which provides a high-quality rust inhibitive primer designed to contain and/or retard light rusted areas on carbon steel. This product meets Federal Specification TT-P-63D.

**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 Energy Coatings.
- Contact U.S. Ply, Inc. for specific uses.



**PRODUCT CHARACTERISTICS:**

**Finish:** Flat  
**Color:** Translucent Red  
**Viscosity:** 55 KU @77°F(nominal)  
**Specific Gravity:** 1.32  
**Weight:** 10.5 lbs/gal  
**VOC:** <400 grams/liter  
**Recommended Spread Rate:** Primer: 200 – 300 sq. ft. /gal (nominal)

**Drying Schedule:                    At 250 sq. ft. / gal**

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

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

<b>SHIPPING INFORMATION:</b>		
<u>Container Size</u>	<u>Gross Weight</u>	<u>Class</u>
5 Gal	54 Lbs.	55
55 Gal.	594 Lbs.	55
<b>D.O.T. Classification:</b> Roof Coating, Not Regulated		
<b>HMIS:</b>	Health	2
	Flammability	3
	Reactivity	0
	Protection	X

### PERFORMANCE CHARACTERISTICS

**Physical Properties:**

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Solids Content By Weight:	61% ± 2%	(ASTM D-1644)
Solids Content By Volume:	39% ± 2%	(ASTM D-2697)

**Shelf Life:** (unopened) – 12 months from date of shipment  
**Flammability:** Combustible

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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.

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## APPLICATION PROCEDURES

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#### TEMPERATURE

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

Material: 50°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 MEK 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. 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. 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 mineral spirits. 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.

**U.S. PLY, INC.**

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