SUNBURST COATINGS
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PRODUCT DATA SHEET
SUN/METAL #2300 SERIES
2K Urethane Semi-Gloss Electrostatic

DESCRIPTION

Sun/Metal Enamels are a high performance 2K Urethane Enamel designed for use on interior or exterior metal surfaces. This product offers a durable semi-gloss finish that has a very good corrosion resistance, excellent adhesion, superior weatherability and sheen retention. Excellent chemical resistance, see supplemental sheet for chemical resistance listings.

ADVANTAGES

- VOC 2.40 lb/gal (288 g/l), on mixed material A + B.
- Polarity adjusted for application with a Ransburg #2 Gun.
- Viscosity adjusted for application with a Ransburg #2 Gun.
- Excellent corrosion resistance
- Excellent chemical resistance
- Free of lead and chromate hazards
- Application by various spray methods
- Accelerator #2199 available for faster dry options.

SURFACE PREPARATION

Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, any contamination, and surface passivation treatments to ensure optimum adhesion and coating performance properties.
New Galvanized Steel: Use appropriate preparation method.
Aged Galvanized Steel: Use appropriate preparation method.
Steel or Iron: Clean surfaces with Sun/Clean prior to any surface preparation to remove oils**.** Remove rust, mill scale, and oxidation products per SSPC.SP2 or SSPC.SP3 For best results, sandblast to SSPC.SP6, Commercial Blast.
Painting over Existing Finish: Applying to a previously coated surface requires spot testing to verify compatibility. See Sunburst Coatings Sales Representative for further details.

PRIMERS

Steel or Iron: Use Sun/Charge 48 Series (Solvent) or Sun/Steel 38 Series (WR Alkyd).

New Galvanized Steel: Use appropriate commercial primer specifically for new Galvanized Metal

Aged Galvanized Steel: Use appropriate commercial primer specifically for aged Galvanized Metal

APPLICATION

MIXING Ratio:
6 parts Comp A to 1 part Comp B. Use mechanical agitation.
No induction period needed.

POT LIFE:
6 hours @ 75°F. Higher ambient temperatures will substantially reduce pot life. Use Caution after mixing, the chemical reaction can not be stopped.

ACCELERATOR:
Sun/Metal #2199 can be added to mixed material to improve dry and hardness. **Caution**: as use of accelerator reduces pot life.

APPLICATION TEMPERATURE:
Substrate temperature between 55° to 100° F

APPLICATION EQUIPMENT
Electrostatic Spray:
Ransburg #2 hand gun
Reduction: None

Conventional Spray:
Binks #7 gun with 36 x 36SD air cap
Reduction: None

Note: Use oil & water extractor in air line per manufactures instructions. Drain daily or more often as needed especially in area or period of high humidity.

Airless Spray:
Reduction: none
Pressure: 1800-2300 psi
Tip: .013”

Air Assisted Airless:
Air pressure: 15-30 psi
Fluid Pressure: 600-900 psi
Cap/Tip: .011” - .013”
Reduction: none

HVLP: (Mach I)
Air Pressure: 70-90 psi
Fluid Pressure: 3-10 psi
Fluid nozzle: #94 (.055”)
Reduction: none

Thinning: Do Not Thin

CLEAN-UP
Clean with Lacquer Thinner or Xylene. Follow solvent manufacturer’s safety recommendations when using any solvent.

CHARACTERISTICS

GLOSS: Semi-Gloss

COLOR: Unlimited Custom Colors

SOLIDS BY WEIGHT: 43 ± 2% (may vary by color)

SOLIDS BY VOLUME: 35 ± 2% (may vary by color)

VISCOSITY (Mixed):
25-35 seconds using an EZ Zahn #2 viscosity cup

RECOMMENDED FILM THICKNESS
Mils wet: 3.0 – 3.9
Applications, greater than 6 mils, paint will run
Mils dry: 1.0 – 1.3

RECOMMENDED SPREADING RATE: (no application loss)
@ 1 mil dft: 560 ft²/gal

DRYING SCHEDULE: 1.0 mils dft, 77ºF, Mixed Material
To touch: 3 hours
To handle: 3 hours
Tack free: 6 hours
To recoat: 24 hours

NOTE: Good air movement and humidity control are necessary for proper drying of coatings. Coating millage and substrate temperature effect the above drying schedule. Please contact your salesman if you are unsure how environmental conditions may affect your results.

FLASH POINT (mixed material): 46° F

WEIGHT PER GALLON (mixed material):
8.2 lbs/gal +/-, varies by color

PACKAGE LIFE:
1 year, unopened, un-catalyzed

PERFORMANCE TESTS:

VOC

COATING VOC: 2.40 #/gal or 288 g/l on mixed material
This is an "artificial" VOC computation that the EPA and AQMD use to regulate paints and coatings that contain either water or exempt solvents. The *COATING VOC* is sometimes called the *Regulatory VOC,* and this is the VOC that air quality districts use to determine whether or not the paint is in compliance with the limits set by a rule.

MATERIAL VOC: 2.40 #/gal or 288 g/l on mixed material
This is the *actual or real amount of VOC that a gallon of paint contains.* Always use the MATERIAL VOC to calculate actual VOC emissions.

STORAGE

FLAMMABLE LIQUID
Use All Appropriate Cautions for Storage and Handling.

WINTER:
Store inside a building, preferably with heat to maintain a climate of no less than 50° F. If stored outside, protect with blanket material and store under canopy if possible.

SUMMER:
PROTECT FROM EXTREME HEAT:
Store inside a building or under canopy to prevent direct sunlight exposure. Extreme heat will increase flammability.

MIXING:
Stir Part A well before use, contains inert pigments which can settle.

CAUTIONS

Do not apply product to exposed steel if threat of rain is imminent.

Thoroughly review product label for safety and cautions prior to using this product. A Safety Data Sheet is available from our web site or your local Sunburst Coatings Distributor. Please direct any questions or comments to your local Sunburst Coatings Distributor.

Note: The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable.

Note: Sunburst Coatings believes the technical data presented in this bulletin is currently accurate: however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date information visit our web site or contact your local Sunburst Coatings Distributor.

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