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Product Data Sheet

Saf-T-Gard II Enamel - 900 Series

Product Description

A high quality, low VOC, high solids, interior/exterior alkyd resin coating characterized by excellent durability, gloss, and color retention.

Where to Use

This product is a heavy-duty enamel designed for architectural and industrial maintenance applications.

Product Characteristics

Color White, Standard and Custom Colors

Gloss High Gloss

Architectural and Industrial Maintenance Category Non-Flat Coatings, Exterior

| <u>Drying Time</u> | <u>Temperature</u> | <u>To Touch</u> | <u>To Recoat</u> |
|--------------------|--------------------|-----------------|------------------|
| | 75°F / 55% R.H. | 2.5 Hours | 8 hours |

(Cooler temperatures and higher humidity will lengthen drying time)

Preparation & Priming

Surface Preparation For maximum performance, the recommended substrate should be blasted in accordance with SSPC-SP7. If blast cleaning is not feasible, the substrate should be degreased in accordance with SSPC-SP1. All burrs should be removed and sharp edges or rough weld seams should be ground down. Full use should then be made of mechanical power tools, in conjunction with wire brushing and chipping to remove all loose rust and mill scale to a standard of cleanliness conforming to SP-2 or SP-3. Prior to painting, all dust should be removed from the substrate by using clean brushes and/or dry compressed air.

Primer Coats Typically, Anchor #1600 Series Rust Inhibitive Primers are recommended. Consult your Anchor representative for specific job recommendations.

Mixing & Application

Mixing Stir thoroughly, making sure no pigment remains on the bottom of the can.

Thinning This coating is VOC compliant; only thin if permitted by federal, state and local regulations. If necessary, use Anchor #J1131 for spray applications and #J1112 for brush and roller requirements.

Surface Temperature Minimum 50°F, Maximum 110°F - The surface should be dry and the relative humidity should be no greater than 85%.

Recommended Thickness 1.6-2.0 mils dry per coat, two coats recommended

Theoretical Coverage 869 ft²/gallon at 1 mil dry, assuming no application loss. Coverage will vary depending on color, surface texture and application technique.

| <u>Coverage Rates per Coat</u> | # | <u>Dry Mils</u> | <u>Wet Mils</u> | <u>Ft²/Gal</u> |
|--------------------------------|---|-----------------|-----------------|---------------------------|
| <u>Suggested</u> | | 1.8 | 3.3 | 483 |
| <u>Minimum</u> | | 1.6 | 2.9 | 543 |
| <u>Maximum</u> | | 2.0 | 3.7 | 435 |

| | | | |
|------------------------------|---|-----------|---------------|
| <u>Application Equipment</u> | <u>Airless Spray</u> | Pressure | 1200-2200 psi |
| | | Tip | 0.011"-0.015" |
| <u>Conventional Spray</u> | Air Pressure | 40-70 psi | |
| | Fluid Pressure | 10-20 psi | |
| <u>Roller</u> | Use 1/4" synthetic nap covers. | | |
| <u>Brush</u> | Use high quality natural china bristle brushes. | | |

Application Considerations The recommended method of application is by airless spray. However, brush, roller, or conventional spray may also be used. To avoid dusting, apply in wet coats. On a derusted surface, the application of a dry film thickness of at least 2 mils is recommended. With any oxidative coating, faster dry time may be obtained with increased air movement and/or higher substrate or material temperature.

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Application: Use with J1100 Urethane Catalyst:

When used with Anchor J1100 Urethane catalyst; an 8:1 ratio is used; the optimal blend is 8 parts of Saf-T-Gard II 900 series enamel and 1 part of J1100. In actual use this is one gallon of the 900 series Saf-T-Gard II enamel and a pint of J1100.

The following table gives the expected dry times associated with application:

| (All time in Hours) | 900 w/o J1100 | 900 w/8:1 J1100 Added |
|---------------------|---------------|-----------------------|
| Dry to Touch | 3.5 | 2.5 |
| Tack Free | 5 | 4.5 |
| Dry Through | 24 | 24 |

Clean-up & Storage

| | | |
|----------------------------|--|---------------|
| <u>Cleanup</u> | Use Anchor #J1131 or #J1112 | |
| <u>Storage Temperature</u> | Minimum 20°F | Maximum 110°F |
| <u>Shelf Life</u> | Under Normal Conditions (Unopened) – Two Years | |

Safety & Important Information

DANGER! FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. CONTAINS: MINERAL SPIRITS AND N-BUTYL ACETATE. Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose, eye, skin and throat irritation. Harmful if swallowed. **NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Keep away from heat, sparks and flame. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources or ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **Use only with adequate ventilation.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. **KEEP OUT OF REACH OF CHILDREN.**

WARNING! If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. **WARNING!** Sanding or scraping pressure treated lumber may be hazardous; wear appropriate protection.

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Technical Information Sheet

Saf-T-Gard II Enamel - 900 Series

Product Description

General Description A high quality, low VOC, high solids, interior/ exterior alkyd resin coating characterized by excellent durability, gloss, and color retention.

Common Usage This product is a heavy-duty enamel designed for architectural and industrial maintenance applications.

Color White, Standard and Custom Colors

Finish High Gloss

Technical Data

Solids by Volume 54.90% – Varies by Color

Recommended Thickness 1.6-2.0 mils dry per coat, two coats recommended

Drying Time

| Temperature | To Touch | To Recoat |
|-----------------|-----------|-----------|
| 75°F / 55% R.H. | 2.5 Hours | 8 hours |

(Cooler temperatures and higher humidity will lengthen drying time)

Architectural and Industrial Maintenance Category Non-Flat Coatings, Exterior

AIM Category VOC Limit 3.2 lb/gal (380 g/l)

Actual VOC 3.10 lb/gal (372 g/l) – Varies by Color

Density 10.16 lb/gal (1217 g/l) – Varies by Color

Theoretical Coverage 881 ft²/gallon at 1 mil dry, assuming no application loss. Coverage will vary depending on color, surface texture and application technique.

Packaging 55 Gallon drums, 5 Gallon pails, 1 Gallon cans, and quart (1/4 gallon) cans

Storage Temperature Minimum 20°F Maximum 110°F

Chemical Resistance Alkalis: Fair Acids: Good Water: Good

Safety Refer to Product Data Sheet or MSDS for safety information.

Performance Data

Substrate Steel

Surface Preparation SSPC-SP10

System Tested 1 coat 0900 Saf-T-Gard II White or 1 coat 0900 Saf-T-Gard II White with J1100 Urethane Converter (8:1)

| Test Name | Test Method | 0900 | 0900 + J1100 |
|-----------------------|-------------------------|--|--|
| QUV | ASTM D-4587 – 312 Hours | Retain 31.5% 20° Gloss and 69% 60° Gloss | Retain 61% 20° Gloss and 84% 60° Gloss |
| Salt Fog Resistance | ASTM B117 | 250 Hours | 225 Hrs |
| Hardness (Pencil) | ASTM D 3363 | 4B | HB |
| Adhesion (Pulloff) | ASTM D 4541 | 150 PSI | 100 PSI |
| Adhesion (Crosshatch) | ASTM D 3359 | 4B | 4B |
| Direct Impact | ASTM D-2794 | 50 inch/pounds | 10 inch/pounds |

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