Protective & Marine Coatings

SEAGUARD® 1224
GLOSS ACRYLIC EPOXY

PART A N20-100
PART B N20V100
SERIES HARDENER

Revised 11/10

PRODUCT INFORMATION

9.43

PRODUCT DESCRIPTION

SEAGUARD 1224 GLOSS ACRYLIC EPOXY is a color and gloss retentive epoxy coating system. SeaGuard 1224 has superior gloss and color retention as compared to conventional epoxies and alkyds for exterior exposure The coating is a tough, durable topcoat designed to upgrade conventional coating systems.

PRODUCT CHARACTERISTICS

Finish: High Gloss (varies by color)

Color: Wide range of colors available

Volume Solids: 60% ± 2% mixed

Weight Solids: 74% ± 2% mixed

VOC (EPA Method 24): <370 g/L; 3.08 lb/gal

Mix Ratio: 4:1 by volume (2 components)

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**3.0** (75)	**5.0** (125)
Dry mils (microns)	**2.0** (50)	**3.0** (75)
~Coverage sq ft/gal (m^2/L)	**320** (7.8)	**481** (11.8)
Theoretical coverage sq ft/gal (m^2/L) @ 1 mil / 25 microns dft	**900** (23.5)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.0 mils wet (100 microns):

@ 77°F/25°C
50% RH

To touch: 1 hour
To recoat: 2-3 hours
To cure: 7 days

If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 5-6 hours
Sweat-in-Time: 15 minutes

Shelf Life: 24 months
Store indoors at 40°F (4.5°C) to 100°F (38°C)

Flash Point: 80°F (27°C) SETA Flash
Reducer/Clean Up: Reducer R2K5

RECOMMENDED USES

For use as an interior or exterior high gloss coating over prepared steel and concrete in industrial and marine exposures, including:

- Marine and offshore applications
- Power plants
- Tank exteriors

Can be used as an upgrade from conventional alkyd and epoxy systems.

PERFORMANCE CHARACTERISTICS

Substrate*: Hot rolled blasted steel
Surface Preparation*: SSPC-SP10/NACE 2
System Tested*:
SeaGuard 5000 HS
SeaGuard 1224
*unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D4541; ASTM 3359	After 24 hrs curing of epoxies, 77% avg. paint adhesion at 900 psi. After 14 days curing of epoxies, 20% avg. paint adhesion at 800 psi (ASTM D4541); 5B (ASTM 3359)
Flexibility (unprimed cold rolled steel)	ASTM D522, 180°, 1/8" mandrel rod	Passes
Pencil Hardness	ASTM D3363	4 days: 3B; 7 days: 2B; 10 days: HB

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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Steel:			
2 cts.	SeaGuard 5000 HS		
or	SeaGuard 6000		
or	SeaGuard Universal Primer		
1-2 cts.	Seguard 1224	2.0-3.0	(50-75)
Fiberglass:			
1 ct.	SeaGuard MP Primer		
1-2 cts.	SeaGuard 1224	2.0-3.0	(50-75)

The systems listed above are representative of the product's use, other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Minimum recommended surface preparation:

Concrete & Masonry: SSPC-SP13/NACE 6 and ICRI No. 310.2
Iron & Steel: SSPC-SP6/NACE 3
Fiberglass: De-gloss and abrade as necessary

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:
Air and surface: 40°F (4.5°C) minimum, 100°F (38°C) maximum
Material: 40°F (4.5°C) minimum, 80°F (27°C) maximum
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:
1 gallon (3.78L) kit: Part A: 1 gallon (3.78L) short-filled
Part B: 1 quart (0.94L) short-filled

5 gallon (18.9L) kit: Part A: 4 gallon (15.1L)
Part B: 1 gallon (3.78L)

~Weight: 11.65 ± 0.2 lb/gal ; 1.4 Kg/L, mixed (varies by color)

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

DISCLAIMER

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APPLICATION BULLETIN

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SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel (atmospheric service)
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Fiberglass
Clean surface thoroughly with water and scrub with a stiff bristle brush. Lighly sand surface to provide a slight profile.

Surface Preparation Standards

Condition of Surface		ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:
- Air and surface: 40°F (4.5°C) minimum, 100°F (38°C) maximum
- Material: 40°F (4.5°C) minimum, 80°F (27°C) maximum
  At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer .....Reducer R2K5

Clean-Up .....Reducer R2K5

Airless Spray
- Pump.....Graco King 45:1
- Pressure.....2700 psi
- Hose.....1/4" ID
- Tip .....026" - .036"
- Filter.....100 mesh
- Reduction.....Not recommended

Conventional Spray
- Type .....Binks 95
- Set-Up.....63 BP
- Pot Pressure .....20 lbs
- Atomization Pressure.....40 lbs

Brush
- Brush.....Nylon/Polyester Natural Bristle (not recommended for large areas)
- Reduction.....Up to 8 fl. oz. per gallon

Roller
Not recommended due to air entrapment from quick drying

If specific application equipment is not listed above, equivalent equipment may be substituted.

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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions:
To mix the 1 gallon Part A, use electric or air mixer (approximately 250 rpm) with a metal mixing blade, Jiffy Model HS. Then combine 4:1 by volume Parts A and B.
To mix the five gallon Part A, use the same procedure except use a larger blade, Jiffy Model ES or equal.

Mix thoroughly before catalyzing and combine 4:1 by volume Parts A and B.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**3.0** (75)	**5.0** (125)
Dry mils (microns)	**2.0** (50)	**3.0** (75)
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NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.0 mils wet (100 microns):

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To touch:	1 hour
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If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	5-6 hours
Sweat-in-Time:	15 minutes

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with R2K5 Reducer. Clean tools and application equipment with R2K5 Reducer. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. If possible, plan painting schedules to avoid these influences during the first 16-24 hours of curing.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over-thinning, climate conditions, or excessive film build.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended down time with Reducer R2K5.

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

Refer to Product Information sheet for additional performance characteristics and properties.

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