



Protective & Marine Coatings

SEAGUARD® MP MULTI-PURPOSE EPOXY PRIMER

PART A
PART B

N12Y200
N12V200

YELLOW
HARDENER

Revised: March 26, 2022

PRODUCT INFORMATION

9.36

PRODUCT DESCRIPTION

SEAGUARD MP Multi-Purpose Epoxy Primer is a high performance primer that is designed to be used over a variety of substrates. This product contains an anticorrosive pigment specifically for the first coat on non-iron/steel substrates, providing outstanding adhesion and enhancing dielectric properties with additional epoxy topcoats. This may be used in immersion service with recommended topcoats.

- Corrosion resistant
- Provides dielectric properties when used within an epoxy coating system
- Contains high molecular weight epoxies
- Contains hygroscopic solvent system

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Yellow
Volume Solids:	62% ± 2%, mixed
Weight Solids:	76% ± 2%, mixed
VOC (EPA Method 24):	<340 g/L; 2.80 lb/gal
Mix Ratio:	1:1, by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 125	7.0 175
Dry mils (microns)	3.0 75	4.0 100
~Coverage sq ft/gal (m ² /L)	248 6.0	330 8.1
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	992 24.3	

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

Drying Schedule @ 5.0 mils wet (125 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 110°F/43°C
To touch:	6 hours	1 hour	30 minutes
To recoat:			
minimum:	10-12 hours	4-6 hours	1-2 hours
maximum:	30 days	30 days	30 days
To cure:	14 days	7 days	7 days
If maximum recoat time is exceeded, abrade surface before recoating.			
Drying time is temperature, humidity, and film thickness dependent.			
Pot Life:	8 hours	6 hours	1-2 hours
Sweat-in-Time:	1 hour	30 minutes	15 minutes

Shelf Life:	24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	100°F (38°C) PMCC
Reducer/Clean Up:	R7K130

RECOMMENDED USES

May be used as a primer over multiple substrates such as:

- Stainless steel
- Aluminum
- Galvanizing

Ideal for underwater surfaces of steel vessels.

May be used as a primer under an epoxy coating system for tanks containing fuel, brine, and non-potable water.

May be used on underwater aluminum hulls as the first coat anticorrosive epoxy primer in combination with the recommended epoxy primer topcoats and recommended antifouling coatings.*

*Use adequate cathodic protection for copper based antifouling paints.

PERFORMANCE CHARACTERISTICS

- Abrasion resistant
- Outstanding adhesion
- Corrosion resistant
- Impact resistant
- Compatible with multiple substrates

Epoxy coatings may darken or yellow following application and curing.



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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Stainless Steel, Immersion:			
1 ct.	SeaGuard MP Epoxy Primer	3.0-4.0	(75-100)
1-2 cts.	SeaGuard 5000 HS Epoxy	4.0-7.0	(100-175)
2 cts.	SeaGuard Antifouling	4.0-7.0*	(100-175)
Aluminum, Immersion:			
1 ct.	SeaGuard MP Epoxy Primer	3.0-4.0	(75-100)
1-2 cts.	SeaGuard 5000 HS Epoxy	4.0-7.0	(100-175)
2 cts.	SeaGuard Antifouling	4.0-7.0*	(100-175)
Stainless Steel, Atmospheric:			
1 ct.	SeaGuard MP Epoxy Primer	3.0-4.0	(75-100)
1-2 cts.	SeaGuard 5000 HS Epoxy	4.0-7.0	(100-175)
1-2 cts.	Polyon HP Polyurethane	2.0-3.0	(50-75)
or			
1-2 cts.	Hi-Solids Polyurethane	3.0-5.0	(75-125)
or			
1-2 cts.	Acrolon Ultra	2.0-3.0	(50-75)
Aluminum, Atmospheric:			
1 ct.	SeaGuard MP Epoxy Primer	3.0-4.0	(75-100)
1-2 cts.	SeaGuard 5000 HS Epoxy	4.0-7.0	(100-175)
1-2 cts.	Polyon HP Polyurethane	2.0-3.0	(50-75)
or			
1-2 cts.	Hi-Solids Polyurethane	3.0-5.0	(75-125)
or			
1-2 cts.	Acrolon Ultra	2.0-3.0	(50-75)
Galvanized, Atmospheric:			
1 ct.	SeaGuard MP Epoxy Primer	3.0-4.0	(75-100)
1-2 cts.	SeaGuard 5000 HS Epoxy	4.0-7.0	(100-175)
1-2 cts.	Polyon HP Polyurethane	2.0-3.0	(50-75)
or			
1-2 cts.	Hi-Solids Polyurethane	3.0-5.0	(75-125)
or			
1-2 cts.	Acrolon Ultra	2.0-3.0	(50-75)

*use adequate cathodic protection for copper based antifouling paints.

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

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

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.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Immersion:
Iron & Steel SSPP-SP10/NACE 2, 2 mil (50 micron) profile

Atmospheric:
Iron & Steel SSPP-SP6/NACE 3, 2 mil (50 micron) profile

Galvanizing: SSPP-SP1

Aluminum: SSPP-SP16 or Power Wire Brush

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPP	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	C St 2	C St 2	SP 2	-
Rusted	D St 2	D St 2	SP 2	-
Pitted & Rusted	C St 3	C St 3	SP 3	-
Rusted	D St 3	D St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum (air, surface, and material)
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:
Part A: 1 gallon (3.78L) and 5 gallon (18.9L) containers
Part B: 1 gallon (3.78L) and 5 gallon (18.9L) containers

Weight:
Part A: 10.6 ± 0.2 lb/gal ; 1.3 Kg/L
Part B: 10.4 ± 0.2 lb/gal ; 1.2 Kg/L

SAFETY PRECAUTIONS

Refer to the SDS 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.



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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 (immersion service):

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is 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). Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned.

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. 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.

Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is SSPC-SP16 or Power Wire Brush.

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum
(air, surface, and material)
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/Clean UpReducer R7K130

Airless Spray

Pressure.....2400 psi
Hose.....1/4" ID
Tip0.017"
Filter60 mesh
Reduction.....as needed, up to 5% by volume

Brush

Brush.....Natural Bristle
Reduction.....Not recommended

Roller

Cover3/8" - 1/2" woven with solvent resistant core
Reduction.....Not recommended

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

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 D St 2	C St 2	SP 2	-
Pitted & Rusty	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusty D St 3	D St 3	SP 3	-



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the cans. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using.

If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 125	7.0 175
Dry mils (microns)	3.0 75	4.0 100
~Coverage sq ft/gal (m ² /L)	248 6.0	330 8.1
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	992 24.3	

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

Drying Schedule @ 5.0 mils wet (125 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 110°F/43°C
To touch:	6 hours	1 hour	30 minutes
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minimum:	10-12 hours	4-6 hours	1-2 hours
maximum:	30 days	30 days	30 days
To cure:	14 days	7 days	7 days
If maximum recoat time is exceeded, abrade surface before recoating.			
Drying time is temperature, humidity, and film thickness dependent.			
Pot Life:	8 hours	6 hours	1-2 hours
Sweat-in-Time:	1 hour	30 minutes	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 Reducer R7K130. Clean tools immediately after use with Reducer R7K130. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

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.

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, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R7K130.

Material must be at least 50°F (10°C) prior to catalyzing.

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

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