



Protective & Marine Coatings

ENVIROLASTIC® 980 PA POLYASPARTIC URETHANE

PART A B65-980 SERIES
 PART A B65-985 SERIES
 PART B B65V980

GLOSS
 SEMI-GLOSS
 HARDENER

Revised: May 20, 2016

PRODUCT INFORMATION

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PRODUCT DESCRIPTION

- ENVIROLASTIC 980 PA** is a fast dry, single coat, polyaspartic urethane specifically formulated for accelerated maintenance painting.
- Fast drying minimizes dust and grit "pick-up"
 - Allows entire maintenance coating system to be completed in one shift
 - Single coat application
 - High film build in one coat
 - No gassing
 - Outstanding application properties

PRODUCT CHARACTERISTICS

Finish:	Gloss or Semi-Gloss
Color:	Wide range of colors possible
Volume Solids:	65% ± 2%, calculated and mixed, may vary by color
Weight Solids:	80% ± 2%, mixed, may vary by color
VOC (Calculated): mixed	<300 g/L; 2.5 lb/gal, unreduced <335 g/L; 2.8 lb/gal, reduced
Mix Ratio:	2:1 by volume (Pre-measured units)

Recommended Spreading Rate per coat:		
	Minimum	Maximum
Wet mils (microns)	10.0 (250)	15.0 (375)
Dry mils (microns)	6.0 (150)	9.0 (225)
~Coverage sq ft/gal (m ² /L)	116 (2.8)	174 (4.3)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1042 (25.5)	

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

Drying Schedule @ 10.0 mils wet (250 microns):				
	@ 30°F/-1.1°C 80% RH	@ 77°F/25°C 50% RH	@ 80°F/27°C 80% RH	@ 120°F/49°C 11% RH
To touch:	1.5 hours	30 minutes	30 minutes	20 minutes
To handle:	3 hours	1 hour	1 hour	1 hour
To recoat:				
minimum:	4 hours	2 hours	2 hours	1 hour
maximum:	3 months	3 months	3 months	3 months
To cure:	7 days	4 days	2 days	1 day

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

Pot Life: 3 hours
Pot life is temperature and humidity dependent.

Sweat-in-Time: None

Shelf Life:	Part A - 24 months, unopened Part B - 12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
Flash Point:	55°F (13°C), PMCC or SETA, mixed
Reducer:	
Below 80°F (27°C):	MEK, R7K111
Above 80°F (27°C):	Reducer R7K216
Brush / Roll:	Reducer R7K216
Clean Up:	MEK, R7K111 or R7K216

RECOMMENDED USES

- Use directly over organic zinc rich primers or over galvanizing.
- Ideal for uses in various coatings applications where fast cure-to-service is desired, such as:
 - Bridges
 - Structural steel
 - Hand rails
 - High visibility areas
 - Maintenance
- Acceptable for use in high performance architectural applications.
- Suitable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

Substrate*: Blasted Steel
Surface Preparation*: SSPC-SP6/NACE 3
System Tested*:
 1 ct. Corothane I Galvapak @ 3.0-4.0 mils (75-100 microns) dft
 1 ct. Envirolastic 980 PA @ 6.0-9.0 mils (150-225 microns) dft
 *unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D4541	1750 psi
Adhesion*	AASHTO R-31, Section 8, Test No. 5	≥ 2800 psi
Corrosion Weathering	ASTM D5894, 15 cycles	Rating 10 per ASTM D714 for blistering; Rating 10 per ASTM D610 for rusting
Cyclic Weathering*	AASHTO R-31, Section 8, Test No. 3	Blister Conversion = 10; Avg Rust Creep @ Scribe <2.0 mm; Max Rust Creep @ Scribe <4.0 mm; Color Loss 1.5 dE
Flexibility	ASTM D522	Passes
Freeze/Thaw Stability	ASTM D2246, 30 cycles	No loss of Adhesion
Freeze/Thaw Stability*	AASHTO R-31, Section 8, Test No. 6	≥ 2500 psi
Salt Fog Resistance	ASTM B117, 5000 hours	Rating 10 per ASTM D714 for blistering; Rating 10 per ASTM D610 for rusting
Salt Fog Resistance*	AASHTO R-31, Section 8, Test No. 2	Blister Conversion = 10; Avg Rust Creep @ Scribe <0.2 mm; Max Rust Creep @ Scribe <2.0 mm

***System Tested (NTPEP #SSC-2012-01-005):**
 1 ct. Zinc Clad III HS OAP @ 3.0-5.0 mils (75-125 microns) dft
 1 ct. Envirolastic 980 PA @ 6.0-9.0 mils (150-225 microns) dft

Meets the requirements of SSPC Paint 39, Level III (QUV).
Complies with ISO 12944-5 C5I and C5M requirements.



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RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
Steel:		
1 ct. Corothane I GalvaPac Zinc Primer	3.0-4.0	(75-100)
1 ct. EnviroLastic 980 PA	6.0-9.0	(150-225)
Steel:		
1 ct. Zinc Clad III HS*	3.0-5.0	(75-125)
1 ct. EnviroLastic 980 PA	6.0-9.0	(150-225)
Galvanizing:		
1 ct. EnviroLastic 980 PA	6.0-9.0	(150-225)
Steel:		
1 ct. Macropoxy 646	3.0-5.0	(75-250)
1 ct. EnviroLastic 980 PA	6.0-9.0	(150-225)
Steel:		
1 ct. Zinc Clad DOT	2.0-4.0	(50-100)
1 ct. EnviroLastic 980 PA	6.0-9.0	(150-225)
Previously Painted Surfaces:		
1 ct. EnviroLastic 980 PA (Check Compatibility)	4.0-7.0	(100-200)
Steel:		
1 ct. Zinc Clad III HS	3.0-5.0	(75-125)
1 ct. EnviroLastic 980 PA	6.0-9.0	(150-225)
Steel:		
1 ct. Zinc Clad III HS*	3.0-5.0	(75-125)
1 ct. Macropoxy 646 FC	3.0-6.0	(75-150)
1 ct. EnviroLastic 980 PA	4.0-7.0	(100-175)
Other acceptable high performance primers:		
Fast Clad Zinc HS		
Steel Spec Epoxy Primer		
Zinc Clad IV		

*Note: With or without OAP

The systems listed above are representative of the product's use, other systems may be appropriate. Please contact Sherwin-Williams for compatibility questions.

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:

Steel*: SSPC-SP6, 2 mil (50 micron) profile
Galvanizing: SSPC-SP16, 1-2 mil (50 micron) profile

*Primer required

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

TINTING

Tint with Maxitoner colorants only into Part A Ultra Deep at 100% tint strength and 150% tint strength for Extra White. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

APPLICATION CONDITIONS

Temperature: 30°F (-1.1°C) minimum, 120°F (49°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: 2 qts. (1.9L) gallon can
Part B: 1 qt. (0.95L) quart can

Part A: 3.33 gallon (12.59L) pail
Part B: short filled 2 gallon (6.31L) pail

Weight: 12.1 ± 0.2 lb/gal ; 1.45 Kg/L, mixed
(may vary with 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.



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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 (primer required)

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.

Galvanized Steel

Surface Preparation Specification SSPC-SP 16 must be followed obtaining a surface profile of minimum 2.0 mils (50 microns).

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.

APPLICATION CONDITIONS

Temperature: 30°F (-1.1°C) minimum, 120°F (49°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:

Below 80°FMEK, R7K111
Above 80°FR7K216
Brush and roll.....R7K216

Cleaner:MEK, R7K111, or R7K216

Airless Spray

Pump.....30:1
Pressure.....2800 - 3000 psi
Hose.....3/8" ID
Tip0.017" - .021"
Filter60 mesh
Reduction.....As needed up to 5% by volume

Conventional Spray

GunDevilbiss
Air Nozzle.....765 Devilbiss A7
Atomization Pressure.....50-70 psi
Reduction.....As needed up to 5% by volume

Brush (small areas only)

Brush.....Natural Bristle
Reduction.....R7K216, up to 5% by volume

Roller (small areas only)

Cover1/4" woven with solvent resistant core
Reduction.....R7K216, up to 5% by volume

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
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Hand Tool Cleaning	Cc 2	Cc 2	SP 2	-
Pitted & Rusted	Dc 2	Dc 2	SP 2	-
Rusted	Cc 3	Cc 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 can. Then combine 2 parts by volume of Part A with 1 part by volume of Part B. Thoroughly agitate the mixture with power agitation.

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

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	10.0 (250)	15.0 (375)
Dry mils (microns)	6.0 (150)	9.0 (225)
~Coverage sq ft/gal (m ² /L)	116 (2.8)	174 (4.3)
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NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 10.0 mils wet (250 microns):

	@ 30°F/-1.1°C 80% RH	@ 77°F/25°C 50% RH	@ 80°F/27°C 80% RH	@ 120°F/49°C 11% RH
To touch:	1.5 hours	30 minutes	30 minutes	20 minutes
To handle:	3 hours	1 hour	1 hour	1 hour
To recoat:				
minimum:	4 hours	2 hours	2 hours	1 hour
maximum:	3 months	3 months	3 months	3 months
To cure:	7 days	4 days	2 days	1 day

If maximum recoat time is exceeded, abrade surface before recoating.

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

Pot Life: 3 hours
Pot life is temperature and humidity dependent.

Sweat-in-Time: None

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 MEK or R7K111. Clean tools immediately after use with MEK or R7K111. 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.

Do not use Quik-Thane Urethane Accelerator.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

Not intended for use with universal primers

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with MEK or R7K111.

When used as part of a rapid recoat system for bridge maintenance painting over Corothane I Galvapac Primer, use 4 oz. per gallon of the KA Accelerator, B65V11, in the Galvapac Primer. This will allow topcoating within 1-2 hours.

When zinc primers and/or OAP pigments are used, a dedicated pump is recommended to prevent residual product in subsequent coats. If a dedicated pump is not used lines must be thoroughly cleaned.

Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.

Pot life will be shorter with high humidity and large volume of material.

Recoat time may be shorter with high humidity during curing / drying stages.

Floating a small amount of MEK or R7K111 over the top of mixed material may help extend pot life.

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

SAFETY PRECAUTIONS

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WARRANTY

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