



## COUNCIL AGENDA

**Monday, March 21, 2022 - 7:00 pm**  
**Waynesville Municipal Building**

- I. Roll Call
- II. Pledge of Allegiance
- III. Mayor (for purposes of acknowledgments)
- IV. Disposition of Minutes of Previous Meetings  
Council, March 7, 2022 at 7:00 p.m.
- V. Public Recognition/Visitor's Comments (A five minute per person time limit will be allowed each speaker unless more time is requested and approved by a majority of the council)
  - Warren County Sheriff, Larry Simms
  - Major Steve Arrasmith, Warren County Drug Task Force
- VI. Old Business
- VII. Reports
  - Standing Council Committees
    - a) Finance Committee
    - b) Public Works Committee
    - c) Special Committees
  - Village Manager's Report
  - Police Report
  - Finance Director's Report
  - Law Directors Report
- VIII. New Business:
  - Drug Task Force 2022 Contribution

### **Legislation:**

**Reading of Ordinances and Resolutions:**

**First Reading of Ordinances and Resolutions:**

None

**Second Reading of Ordinances and Resolutions:**

None

**Tabled:**

IX. Executive Session

X. Adjournment

*Next Regular Council Meeting:*

**April 4, 2022 at 7:00 pm**

*Upcoming Meetings and Events:*

Public Works, April 4, 2022 @ 5:30 p.m.  
Finance Meeting, March 24, 2022 @ 5:00 p.m.  
BZA Meeting, March 31, 2022 @5:30 p.m.

**Village of Waynesville  
Council Meeting Minutes  
March 7, 2022 at 7:00 pm**

**DRAFT**

Present: Mayor Earl Isaacs  
Mr. Brian Blankenship  
Mr. Chris Colvin  
Ms. Joette Dedden  
Mr. Zack Gallagher  
Mr. Troy Lauffer  
Mrs. Connie Miller

Village Staff Present: Jeff Forbes, Law Director; Chief Gary Copeland, Village Manager and Safety Director; Jamie Morley, Clerk of Council

*CLERK'S NOTE- This is a summary of the Village Council Meeting held on Monday, March 7, 2022.*

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Mayor Isaacs called the meeting to order at 7:02 p.m.

Roll Call – 7 present

**Mayor Acknowledgements**

None

**Disposition of Previous Minutes**

Ms. Dedden made a motion to approve the minutes for the working session of Council on February 22, 2022 as written and Mr. Blankenship seconded the motion.

Motion – Miller  
Second – Blankenship

**Roll Call – 7 yeas**

Mrs. Miller made a motion to approve the minutes for the Council meeting on February 22, 2022 as written and Mr. Colvin seconded the motion.

Motion – Miller  
Second – Colvin

**Roll Call – 7 yeas**

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**Public Recognition/Visitor's Comments**

Diane Colvin, 4337 N. Waynesville Road, informed Council that Wayne Township will be having a traffic study done sometime soon by ODOT for the intersection of Old 73 and Route 73. New signs have been installed signifying a dangerous intersection.

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**Old Business**

Andrew Shipman, David Nation, and Brian Blankenship addressed Council as members of the Friend’s Museum Board in reference to the Lockup. The Museum has decided they would like to go forward with accepting the Lockup and has plans to use this as a multifunction room for the community. They asked if the Village could draw up an agreement and deed the property, 260 Chapman, to the Museum.

David Nation, 120 Victoria Place, stated that the Museum is excited to be able to open the Lockup to the community. He indicated that the board has some concern that if the Museum invests a lot of money into the building and for some unforeseeable reason years from now must give the building back to the Village, the Museum will lose their investment. He asked if there could be a time limit of four years that the Museum would own the building free and clear. He also asked if an inspection could be done before, to ensure there are no unknown huge repair costs.

Mr. Colvin asked Mr. Forbes what the next steps would be to donate the building to the Museum. Mr. Forbes responded that he would draw up a purchase agreement between the Museum and the Village for \$1 that spells out the terms as discussed in tonight’s meeting. Mr. Forbes also pointed out that Mr. Blankenship will no be able to participate in further discussions or vote on the contract as he has a conflict of interest being both on Council and the Museum Board.

Ms. Morley suggested Council reconsider including 260 Chapman Street in the required Historic District to ensure that any changes to the outside of the building must be approved by the Historic Preservation Board.

Ms. Dedden asked Mr. Forbes’s opinion on Section K of the Rules of Council and if he had any recommended changes.

Section K.

Any member who was absent or voted with the prevailing side may move a reconsideration of any action of Council, excepting measures which shall be into immediate effect. Such a motion for reconsideration shall be made not later than the next regular meeting after the action to which it relates was taken. No motion to reconsider shall be made more than once on any measure and such motions shall require a majority of all members elected to Council in order to prevail. Any member of Council may second such a motion.

Mr. Forbes stated that this has never been done in the time he has been Law Director. Mr. Forbes said this is typical for Robert’s Rules and not uncommon to have in Rules of Council. He

said if an ordinance is passed as an emergency this section does not apply. Mr. Forbes explained that it basically means that something was done at the last meeting, but someone thinks it ought to be reconsidered or undone. To make this motion the member must have been absent or a member who was on the prevailing side of the vote. The motion must have four affirmative votes to be discussed and revoted on. Mr. Forbes also noted that there are other ways to reconsider an ordinance such as passing another ordinance to rescind or amend the previous ordinance. After hearing Mr. Forbes's explanation, Council agreed to keep the Rules of Council as is.

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**Reports**

**Finance**

The Finance Committee will meet this Thursday, March 24, 2022 at 5:00 p.m. in the small conference room at the Government Center. The public is welcome to join.

**Public Works Report**

Public Works met this evening and discussed the lampposts along Main Street weather to refurbish or replace them. The next meeting will be on April 4, 2022 at 6:00 p.m. and the public is encouraged to attend.

**Special Committee Reports**

None

**Village Manager Report**

- The Village now has a new copier and large format printer. This will allow staff to scan and print blueprints to help communicate with engineers and create electronic file management for blueprints. The lease is slightly more for two pieces of equipment, but the price of copies has gone down.
- Thank you to Mrs. Miller and Mr. Lauffer for all their work researching new lampposts along Main Street. I will investigate obtaining a quote to refurbish the current lampposts as another option.
- The electronic sign at the Government Center is up and running. There have been many compliments from the public and it serves as another great way to communicate with the public.
- Thank you to Mr. Colvin for contributing the article on behalf of the Village for the Township Newsletter.
- The clock to be dedicated for Waynesville's 225<sup>th</sup> birthday is being repaired and cleaned up by Barry at Hour House. He

suggested that the Village convert the clock from battery operated to electric as battery-operated is not the best option for adverse weather. The Township has agreed to allow the clock to be placed at the gazebo and pour a cement pad for the clock. It will cost about \$500 to have the clock converted to electric and repaired and would like to know Council's opinion for the Village to pay for this.

- Planning Commission met to discuss filling in the plot of land at the corner of Route 73 and 42. This is tabled as of right now pending further investigation.
- Maintenance Crew placed a stop sign at the government center and will paint a stop bar when weather permits.
- Believe donating the Lockup to the Museum is the best choice for the building. Mr. Richter wrote a good story on the Lockup for the Dayton Daily News which was included in the Village Manager's report.
- 100 tons of salt was delivered.

## **Police Report**

- February's dispatch calls for service and Mayor's Court report have been provided.
- Code Enforcers report has also been provided. Sgt. Denlinger has given several properties some leeway because of poor weather.
- Presented photos of SRO Mermann presenting at Career week to kindergarteners.
- Sgt Denlinger just returned from First-Line Supervision training.

Mrs. Miller asked about the enforcement of code violations at 599 Chapman as the home needs to be repainted and the roof has been tarped for over a year. Chief Copeland responded that there have been offers in the past from service groups to help paint the house, but the homeowner has refused. He also added that the Prosecutor for Mayor's Court is very good at working with the offenders. Chief Copeland stated that the point of code enforcement is not to beat up the residents but to help keep the Village looking nice.

Ms. Dedden asked Council's opinion on the Village Manager's question about paying for the clock repair. It was the consensus of Council to pay for the repairs and an electrician to run electric to the clock. Ms. Colvin stated she would be willing to donate to the repair of the clock. Mr. Forbes stated that it is fine if someone wants to make a private donation to help defray the cost.

## **Financial Director Report**

None

## **Law Report**

None

Mr. Colvin stated he just attended the public records training required by the State Auditors. He asked about something that there were updates brought up during the session about changes in executive session confidentiality not to be assumed and changes in imminent and pending litigations criteria for executive sessions. Mr. Forbes stated that he is not aware of changes but will research. He also said that there has been discussion about municipalities liberally using the imminent and pending litigation to go into executive session. Mr. Forbes also added that there is nothing in the Sunshine Law stating that discussions in executive session is confidential but there are other provisions in other laws such as the Ethics Law and Waynesville's Rules of Council that state this.

Mr. Colvin also asked if Council has any oversight in the records retention plan. Mr. Forbes stated that it is the job of the Records Committee to oversee this. The Committee is made up of the Law Director, Finance Director, Village Manager, and resident of the Village. Mr. Forbes stated that what is often referred to as the Sunshine Law has two different statutes. One is the Public Record Law and one is the Open Meeting Act.

## **New Business**

### **Legislation**

#### **First Reading of Ordinances and Resolutions**

##### **Ordinance No. 2022-007**

An Ordinance Authorizing the Finance Director to Transfer Investment Funds (2 Year Cd) and Declaring an Emergency (CD Rollover)

Ms. Dedden made a motion to waive the two-reading rule for Ordinance 2022-007 and Mrs. Miller seconded the motion.

Motion – Dedden  
Second – Miller

##### **Roll Call – 7 yeas**

Mr. Colvin explained the reason for the emergency because the previous CD matured and it is in the best interest of the Village to put the money back in investments to start earning interest.

Mr. Gallagher made a motion to adopt Ordinance 2022-007 as an emergency and Mr. Lauffer seconded the motion.

Motion – Gallagher  
Second – Lauffer

##### **Roll Call – 7 yeas**

##### **Resolution No. 2022-008**

A Resolution Adopting the Permanent Appropriations for the Village of Waynesville for Calendar Year 2022 and Declaring an Emergency

Mrs. Miller made a motion to waive the two-reading rule for Resolution 2022-008 and Mr. Blankenship seconded the motion.

Motion – Miller  
Second – Blankenship

**Roll Call – 7 yeas**

Mr. Colvin made a motion to adopt Resolution 2020-008 as an emergency and Mr. Gallagher seconded the motion.

Motion – Colvin  
Second – Gallagher

**Roll Call – 7 yeas**

**Second Reading of Ordinances and Resolutions**

None

**Tabled Ordinances and Resolutions**

None

**Executive Session**

None

Chief Copeland stated that he was planning to represent the Village at the One Ohio MOU Opioid meeting at the County offices unless anyone from Council would like to volunteer. This is in reference to the settlement agreement concerning the joint lawsuit and how to distribute the funds at a local level. Council agreed that Chief Copeland would be the best representative at this meeting.

Mr. Blankenship made a motion to adjourn, and all were in favor to adjourn at 8:03 p.m.

Date: \_\_\_\_\_

\_\_\_\_\_  
Jamie Morley, Clerk of Council



# Council Report

March 21, 2022

Chief Copeland

## Manager

- We will be launching the new Village website on Tuesday, March 22<sup>nd</sup>. I would like Council to review it and let me know your thoughts. This is an additional way to communicate with the public, so they are aware of what is going on in the community. They can also use it as a resource to obtain needed information. The website can be located at: [villageofwaynesville.org](http://villageofwaynesville.org).
- I attended a county-wide meeting on Tuesday, March 8<sup>th</sup> at the Warren County Commissioners Boardroom as a representative of Waynesville in the OneOhio Memorandum of Understanding (MOU) regarding the national prescription opiate multidistrict litigation. There was a settlement of \$808,000,000.00 of the opioid lawsuit of which 30% will be distributed to local governments. The meeting was to establish a committee of representatives to determine an outline of how the funds will be shared and what they can be used for. This is the first step of this project and the period in which the funds can be used is 18 years. We are in region 14. I will keep you posted on additional information as it becomes available.



- Warren County Community Services has provided information to all the County water vendors of a service they provide. They are offering to help residents with their water, sewer, and storm water bills. If a resident has a disconnect notice or is having trouble paying their bill, they can contact HEAP at 513-970-6737 to see if they qualify for assistance. The eligibility is based on the resident's situation and income.

- At the last Public Works meeting it was determined that we would research other options for the Main Street lights. Because of the high replacement costs, we investigated the capability and cost of restoration to the current light poles. On March 8<sup>th</sup>, I contacted Ohio Valley Painting Company at 937-224-7361 about reconditioning the Main Street lights. They are the company that restored Springboro's lights as observed in the photos below. Ohio Valley Painting Company provided me with a quote on March 14<sup>th</sup> that I have provided for your review. The light pole restoration for 52 lights is \$10,244.00 which included the matching lights in Veteran's Park. I also had them include the 18 street sign poles, so they will match the lights. The price of the street sign poles is \$2,700.00. The total for the project to restore the light poles and street sign poles is \$12,944.00. I have included a copy of the quote and specification sheets for your review. After visiting Springboro, I would recommend changing the color to black because it looked very good, and it will help to determine that the poles have been completely reconditioned.



- Brian and Greg from the Street Maintenance Department picked up some asphalt and repaired several potholes throughout the Village. We will be going out again in the near future, so please let me know of any areas in need of attention.



- I am providing some photos of the lot on the corner of SR42 & SR73 taken on March 8<sup>th</sup> after the last Council meeting. This is the pending location in which the applicant is requesting to fill for future development. This has been discussed and is still being researched. I wanted to share these photos as I am confident the relocation of this water will have an adverse impact on some other properties.



- Andy from the Water Department and Brian from the Street Maintenance Department put a new metal roof on the building at the Covey Station which houses our pumps. The roof matches the roofs at the Sawyer Water Distribution building and the Maintenance garages on Main Street.



- The Village Council agreed to pay up to \$500 towards the Main Street clock project at the March 7<sup>th</sup> Council meeting. This is to pay for Barry Heismann from the Hour House Clock Repair Shop on Miami Street to convert the clock to electric. Wayne Township has agreed to install the unit at the Fire Department gazebo. We are checking to make sure the clock can be converted and is operational. I have been communicating this information to Cindy Menth from the Merchants Association.
- The Village will be receiving \$1,330.26 from the American Rescue Fund. This is additional money given to municipalities from money not accepted but other cities or villages.

- Tax exemption applications for parcels 0631400005 and 0501130007 have received a final determination. Both parcels were approved for tax exemption, and it looks like we will receive a refund of \$225.00 for parcel 0631400005 and \$165.00 for parcel 0501130007 totaling \$390.00. We still have one large parcel exemption application still pending. I will report that final determination when it becomes available.

## Police

- Sheriff Sims and Commander Arrasmith will be attending the March 21<sup>st</sup> meeting to provide a year-end Sheriff's Office Report and a year-end Drug Task Forces Report.
- I have received a 2022 Drug Task Force Contribution invoice in the amount of \$5,668.00. This is the same amount paid in previous years and I ask that a motion be made at Council to remit payment to the Greater Warren County Drug Task Force. They have been a great asset to the community, and we appreciate the service they provide.
- I have provided Council members with a free pocket Constitution of the United States book for reference or to read for refreshing your knowledge.
- For additional safety, I had Brian and Greg from the Maintenance Department paint a stop bar at the exit of the Village Government Center parking lot.





270 Vermont Avenue • Dayton, Ohio 45404  
Phone: 937-224-7361 • Fax: 937-224-7578  
[www.ohiovalleypainting.com](http://www.ohiovalleypainting.com)

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3/14/2022

Village of Waynesville  
1400 Lytle Road  
Waynesville, OH 45068  
513-897-8015

**Attn: Chief Copeland**

**Re: Light Pole Painting**

Below are the estimated costs for work to be performed at the above listed facility. This bid is the result of the site visit held on Wednesday March 9<sup>th</sup> 2022.

The Ohio Valley Painting Company proposes to furnish labor, material, equipment, insurance and supervision to prep and paint the existing 12ft light poles and street signs:

**52 LIGHT POLES: \$10,244.00**

**18 STREET SIGNS: \$2,700.00**

Proposal Qualifications:

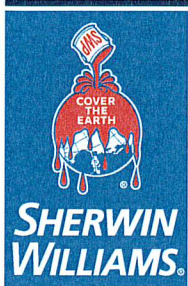
- Color TBD, doesn't affect price
- Steel prepped and primed with Macropoxy 646, Polyurethane finish

Sincerely,

*Derrell Duncan*

Derrell Duncan

Ohio Valley Painting Co., Inc. Since 1954



# Protective & Marine Coatings

# MACROPOXY® 646-100 FAST CURE EPOXY

PART A  
PART B

B58-620  
B58V620

SERIES  
HARDENER

Revised: October 19, 2016

## PRODUCT INFORMATION

4.52

### PRODUCT DESCRIPTION

MACROPOXY 646-100 FAST CURE EPOXY is a high solids, less than 100 g/L VOC, high build, fast drying, polyamide epoxy designed to protect steel and concrete in industrial exposures. Ideal for maintenance painting and fabrication shop applications. The high solids content ensures adequate protection of sharp edges, corners, and welds. This product can be applied directly to marginally prepared steel surfaces.

- Low VOC, <100 g/L
- Low odor
- Outstanding application properties
- Chemical resistant
- Abrasion resistant

### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Semi-Gloss
<b>Color:</b>	Mill White and a wide range of colors available through tinting
<b>Volume Solids:</b> Mill White	73% ± 2%, mixed
<b>Weight Solids:</b> Mill White	83% ± 2%, mixed
<b>VOC (EPA Method 24):</b> mixed	Unreduced: <100 g/L; .83 lb/gal Reduced 10%: <100 g/L; .83 lb/gal
<b>Mix Ratio:</b>	1:1 by volume

### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>7.0</b> (175)	<b>13.5</b> (338)
<b>Dry mils (microns)</b>	<b>5.0*</b> (125)*	<b>10.0*</b> (250)*
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>116</b> (2.8)	<b>232</b> (5.7)
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1168</b> (28.6)	

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

\*May be applied at 3.0-10.0 mils (75-250 microns) dft in a multi-coat system. Refer to Recommended Systems and Performance Tips Sections.

### Drying Schedule @ 7.0 mils wet (175 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
<b>To touch:</b>	4-5 hours	2 hours	1.5 hours
<b>To handle:</b>	48 hours	8 hours	4.5 hours
<b>To recoat:</b>			
<b>minimum:</b>	48 hours	8 hours	4.5 hours
<b>maximum:</b>	1 year	1 year	1 year
<b>Cure for</b>			
<b>service:</b>	10 days	7 days	4 days
<b>immersion:</b>	14 days	7 days	4 days

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

<b>Pot Life:</b>	10 hours	4 hours	2 hours
<b>Sweat-in-time:</b>	30 minutes	30 minutes	15 minutes

<b>Shelf Life:</b>	36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
<b>Flash Point:</b>	61°F (16°C), PMCC, mixed
<b>Reducer/Clean Up:</b>	Reducer R7K111 or Oxsol 100

### RECOMMENDED USES

- Marine applications
- Fabrication shops
- Pulp and paper mills
- Power plants
- Offshore platforms
- Mill White is acceptable for immersion use for salt water and fresh water
- Not acceptable for potable water
- Suitable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities, categories: D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales Representative)
- Conforms to AWWA D102 OCS #5
- Approved with FIRETEX hydrocarbon coatings
- Refineries
- Chemical plants
- Tank exteriors
- Water treatment plants

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Steel

**Surface Preparation\*:** SSPC-SP10/NACE 2

**System Tested\*:**

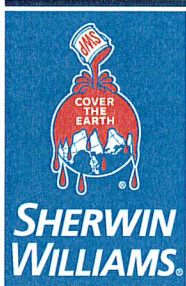
- 1 ct. Macropoxy 646-100 Fast Cure @ 6.0 mils (150 microns) dft
- \*unless otherwise noted below

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	84 mg loss
<b>Accelerated Weathering - QUV<sup>1</sup></b>	ASTM D4587, QUV-A, 12,000 hours	Passes
<b>Adhesion</b>	ASTM D4541	1,037 psi
<b>Corrosion Weathering<sup>1</sup></b>	ASTM D5894, 36 cycles, 12,000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting
<b>Direct Impact Resistance</b>	ASTM D2794	30 in. lb.
<b>Dry Heat Resistance</b>	ASTM D2485	250°F (121°C)
<b>Exterior Durability</b>	1 year at 45° South	Excellent, chalks
<b>Flexibility</b>	ASTM D522, 180° blend, 3/4" mandrel	Passes
<b>Immersion</b>	1 year fresh and salt water	Passes, no rusting, blistering, or loss of adhesion
<b>Pencil Hardness</b>	ASTM D3363	3H
<b>Salt Fog Resistance<sup>1</sup></b>	ASTM B117, 6,500 hours	Rating 10 per ASTM D610 for rusting; Rating 9 per ASTM D1654 for corrosion
<b>Water Vapor Permeance</b>	ASTM D1653, Method B	1.16 grains/day

Epoxy coatings may darken or discolor following application and curing.

**Footnotes:**

<sup>1</sup> Zinc Clad II Plus Primer



# Protective & Marine Coatings

# MACROPOXY® 646-100 FAST CURE EPOXY

PART A  
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## PRODUCT INFORMATION

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### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Immersion and atmospheric:</b>			
<b>Steel:</b>			
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)
<b>Concrete/Masonry, smooth:</b>			
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)
<b>Concrete Block:</b>			
1 ct.	Kem Cati-Coat HS Epoxy Filler/Sealer as needed to fill voids and provide a continuous substrate.	10.0-20.0	(250-500)
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)
<b>Atmospheric:</b>			
<b>*Steel:</b>			
(Shop applied system, new construction, AWWA D102, can also be used at 3 mils (75 microns) dft when used as part of a multi-coat system)			
1 ct.	Macropoxy 646-100 Fast Cure Epoxy	3.0-6.0	(75-150)
1-2 cts. of recommended topcoat			
<b>Steel:</b>			
1 ct.	Recoatable Epoxy Primer	4.0-6.0	(100-150)
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)
<b>Steel:</b>			
1 ct.	Macropoxy 646-100	3.0-10.0	(75-250)
1-2 cts.	Acrolon 218 Polyurethane	3.0-6.0	(75-150)
or	Hi-Solids Polyurethane	3.0-5.0	(75-125)
or	SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Steel:</b>			
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)
1-2 cts.	Tile-Clad HS Epoxy	2.5-4.0	(63-100)
<b>Steel:</b>			
1 ct.	Zinc Clad II Plus	3.0-6.0	(75-150)
1 ct.	Macropoxy 646-100	3.0-10.0	(75-250)
1-2 cts.	Acrolon 218 Polyurethane	3.0-6.0	(75-150)
<b>Steel:</b>			
1 ct.	Zinc Clad III HS	3.0-5.0	(75-125)
or	Zinc Clad IV	3.0-5.0	(75-125)
1 ct.	Macropoxy 646-100	3.0-10.0	(75-250)
1-2 cts.	Hi-Solids Polyurethane-100	3.0-6.0	(75-150)
<b>Aluminum:</b>			
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)
<b>Galvanizing:</b>			
2 cts.	Macropoxy 646-100	5.0-10.0	(125-250)

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:

<b>Iron &amp; Steel</b>			
Atmospheric:	SSPC-SP2/3		
Immersion:	SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile		
Aluminum:	SSPC-SP1		
Galvanizing:	SSPC-SP1		
<b>Concrete &amp; Masonry</b>			
Atmospheric:	SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3		
Immersion:	SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 1-3		

#### Surface Preparation Standards

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

### TINTING

Tint Part A with Maxitones at 150% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Tinting is not recommended for immersion service.

### APPLICATION CONDITIONS

Temperature:	40°F (4.5°C) minimum, 140°F (60°C) maximum (air, surface, and material)
Relative humidity:	At least 5°F (2.8°C) above dew point 85% maximum

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

<b>Packaging:</b>	
Part A:	1 gallon (3.78L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.78L) and 5 gallon (18.9L) containers
<b>Weight:</b>	13.24 ± 0.2 lb/gal ; 1.6 Kg/L mixed, may vary by color

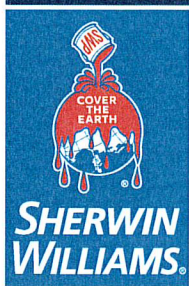
### SAFETY PRECAUTIONS

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.



# Protective & Marine Coatings

# MACROPOXY® 646-100 FAST CURE EPOXY

PART A  
PART B

B58-620  
B58V620

SERIES  
HARDENER

Revised: October 19, 2016

## APPLICATION BULLETIN

4.52

### 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:

Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use 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 within 8 hours or before flash rusting occurs.

#### 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 (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned.

#### Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1.

#### Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1 (recommended solvent is VM&P Naphtha). 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.

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

#### Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 1-3.

#### Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.  
ASTM D4259 Standard Practice for Abrading Concrete.  
ASTM D4260 Standard Practice for Etching Concrete.  
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.  
SSPC-SP 13/NACE 6 Surface Preparation of Concrete.  
ICRI No. 310.2R Concrete Surface Preparation.

#### 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.

#### Surface Preparation Standards

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

### APPLICATION CONDITIONS

Temperature: 40°F (4.5°C) minimum, 140°F (60°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 Up ..... Reducer R7K111 or Oxsol 100

#### Airless Spray

Pump..... 30:1  
Pressure..... 2800 - 3000 psi  
Hose..... 1/4" ID  
Tip ..... .017" - .023"  
Filter ..... 60 mesh  
Reduction..... As needed up to 10% by volume

#### Conventional Spray

Gun ..... DeVilbiss MBC-510  
Fluid Tip ..... E  
Air Nozzle..... 704  
Atomization Pressure..... 60-65 psi  
Fluid Pressure..... 10-20 psi  
Reduction..... As needed up to 10% by volume  
Requires oil and moisture separators

#### Brush

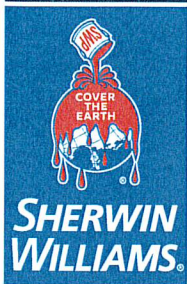
Brush..... Nylon/Polyester or Natural Bristle  
Reduction..... Not recommended

#### Roller

Cover ..... 3/8" woven with solvent resistant core  
Reduction..... Not recommended

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





# Protective & Marine Coatings

# MACROPOXY® 646-100 FAST CURE EPOXY

PART A  
PART B

B58-620  
B58V620

SERIES  
HARDENER

Revised: October 19, 2016

## APPLICATION BULLETIN

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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 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 prior to application. 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)	7.0 (175)	13.5 (338)
Dry mils (microns)	5.0* (125)	10.0* (250)*
~Coverage sq ft/gal (m <sup>2</sup> /L)	116 (2.8)	232 (5.7)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1168 (28.6)	

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

\*May be applied at 3.0-10.0 mils (75-250 microns) dft in a multi-coat system. Refer to Recommended Systems and Performance Tips Sections.

#### Drying Schedule @ 7.0 mils wet (175 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	4-5 hours	2 hours	1.5 hours
To handle:	48 hours	8 hours	4.5 hours
To recoat:			
minimum:	48 hours	8 hours	4.5 hours
maximum:	1 year	1 year	1 year
Cure for			
service:	10 days	7 days	4 days
immersion:	14 days	7 days	4 days
<i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i>			
Pot Life:	10 hours	4 hours	2 hours
Sweat-in-time:	30 minutes	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 R7K111 or Oxsol 100. Clean tools immediately after use with Reducer R7K111 or Oxsol 100. 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 mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R7K111 or Oxsol 100.

Insufficient ventilation, incomplete mixing, miscatalyzed, and external heaters may cause premature yellowing.

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

Tinting is not recommended for immersion service.

Use only Mil White for immersion service.

Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.

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

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

When coating over steel in a zinc/epoxy/epoxy, or epoxy/epoxy/epoxy system, Macropoxy 646-100 must be applied at a minimum dft of 3.0 mils per coat.

Acceptable for Concrete Floors.

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

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

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### WARRANTY

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# Protective & Marine Coatings

# HI-SOLIDS POLYURETHANE

PART S B65-300 GLOSS SERIES  
 PART S B65-350 SEMI-GLOSS SERIES  
 PART S B65WW305 MR, WHITE TINT BASE (GLOSS)  
 PART T B60V30 HARDENER

Revised: April 27, 2016

## PRODUCT INFORMATION

5.21

### PRODUCT DESCRIPTION

**HI-SOLIDS POLYURETHANE** is a two-component, low VOC, aliphatic, acrylic polyurethane resin coating. It is designed for high performance protection with outstanding exterior gloss and color retention.

- Good/excellent resistance to corrosion and weathering
- Outstanding color and gloss retention
- Chemical resistant
- Part of a system tested for nuclear irradiation and decontamination, Level II
- Resists film attack by mildew (MR White only)
- Outstanding application properties

### PRODUCT CHARACTERISTICS

**Finish:** High Gloss or Semi-Gloss  
**Color:** Wide range of colors possible  
**Volume Solids:** 65% ± 2%, mixed, may vary by color  
**Weight Solids:** 77% ± 2%, mixed, may vary by color  
**VOC (EPA Method 24):** Unreduced: <340g/L; 2.80 lb/gal mixed  
 Reduced 15%: <370 g/L; 3.08 lb/gal  
 May vary by color  
**Mix Ratio:** 4:1 by volume

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	4.5 (112)	8.0 (200)
Dry mils (microns)	3.0 (75)	5.0 (125)
~Coverage sq ft/gal (m <sup>2</sup> /L)	208 (5.1)	347 (8.5)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1040 (25.5)	

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

#### Drying Schedule @ 4.5 mils wet (112 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
To touch:	4 hours	2 hours	1 hour
To handle:	16 hours	8 hours	5 hours
To recoat:			
minimum	24 hours	18 hours	10 hours
maximum	14 days	14 days	14 days
To cure:	14 days	10 days	7 days
Pot Life:	8 hours	4 hours	2 hours
Sweat-in-Time:	None required		

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

**Shelf Life:** Part S - 36 months, unopened  
 Part T - 24 months, unopened  
 Store indoors at 40°F (4.5°C) to 100°F (38°C).  
**Flash Point:** 80°F (27°C), PMCC, mixed  
**Reducer/Clean Up:**  
 Below 80°F (27°C): Reducer #69, R7K69 or R7K111  
 Above 80°F (27°C): Reducer #58 or R6K32

### RECOMMENDED USES

- For use over prepared substrates in industrial environments
- Heavy duty interior and exterior structural coating
- A chemical and abrasion resistant equipment and machinery finish
- A gloss and color retentive heavy duty maintenance coating for use in "high visibility" areas
- Exterior surfaces of steel tanks
- Chemical processing equipment
- Marine & Offshore Applications
- Resists film attack by mildew (MR White only)
- Suitable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities categories: D1, D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales Representative)
- Conforms to AWWA D102 OCS #5 & #6.
- Acceptable for use in high performance architectural applications
- As topcoat for NEPCOAT System A
- Over FIRETEX hydrocarbon systems

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Steel

**Surface Preparation\*:** SSPC-SP6/NACE 3

**System Tested\*:**

- 1 ct. Recoatable Epoxy Primer @ 4.0 mils (100 microns) dft
  - 1 ct. Hi-Solids Polyurethane Gloss @ 3.0 mils (75 microns) dft
- \*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	87.1 mg loss
Adhesion	ASTM D4541	1050 psi
Corrosion Weathering <sup>1</sup>	ASTM D5894, 21 cycles, 7056 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting
Direct Impact Resistance	ASTM D2794	>28 in. lbs.
Dry Heat Resistance	ASTM D2485	200°F (93°C)
Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes
Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 1000 hours	No rusting, blistering, or delamination
Pencil Hardness	ASTM D3363	F
Salt Fog Resistance <sup>1</sup>	ASTM B117, 9000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting
Surface Burning	ASTM E84	Flame Spread Index 0; Smoke Development Index 0 (at 3.5 mils or 88 microns)
Thermal Shock	ASTM D2246, 15 cycles	Excellent

Meets the requirements of SSPC Paint No. 36, Level 3 for white and light colors. Dark colors may require a clear coat.

#### Footnotes:

<sup>1</sup> Primer: Zinc Clad II Plus; Intermediate - Recoatable Epoxy Primer



# Protective & Marine Coatings

# HI-SOLIDS POLYURETHANE

PART S B65-300 GLOSS SERIES  
 PART S B65-350 SEMI-GLOSS SERIES  
 PART S B65WW305 MR, WHITE TINT BASE (GLOSS)  
 PART T B60V30 HARDENER

Revised: April 27, 2016

## PRODUCT INFORMATION

5.21

### RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
<b>Steel: Epoxy Primer</b>		
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Steel: Epoxy Primer</b>		
1 ct. Dura-Plate 235	4.0-8.0	(100-200)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Steel: Zinc Rich Primer</b>		
1 ct. Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct. Macropoxy 646	5.0-10.0	(125-250)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Steel: Epoxy Mastic Primer</b>		
1 ct. Macropoxy 646	5.0-10.0	(125-250)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Steel: Universal Primer</b>		
1 ct. Kem Bond HS Metal	2.0-5.0	(50-125)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Steel: NEPCOAT</b>		
1 ct. Zinc Clad DOT	2.0-4.0	(50-100)
1 ct. Steel Spec Epoxy Intermediate	3.0-6.0	(75-150)
1 ct. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Aluminum:</b>		
1 ct. DTM Wash Primer	0.7-1.3	(18-32)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Concrete:</b>		
1 ct. Kem Cati-Coat Epoxy HS Filler/Sealer	10.0-15.0	(250-375)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)
<b>Galvanized Metal:</b>		
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)
1-2 cts. Hi-Solids Polyurethane	3.0-5.0	(75-125)

### FIRETEX ONLY:

#### Finish Coat for FIRETEX Hydrocarbon Systems:

1 ct. Hi-Solids Polyurethane\*

\*Consult FIRETEX PFP Specialist for recommended dft range

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

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### 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:

- \* Iron & Steel: SSPC-SP6/NACE 3, 2 mil (50 micron) profile
- \* Aluminum: SSPC-SP1
- \* Galvanizing: SSPC-SP1
- \* Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3

\* 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 S. Extra White tints at 200% tint strength. Ultradeep tints at 150% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

### APPLICATION CONDITIONS

Temperature: 35°F (1.7°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 S: 1 gallon (3.78L) and 4 gallon (15.1L) kits  
 Part T: quarts (0.94L) and gallons (3.78L)

Weight: 10.7 ± 0.2 lb/gal ; 1.28 Kg/L  
 mixed, may vary with color

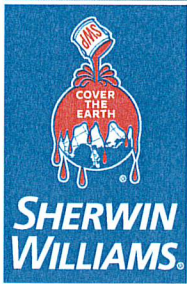
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**Protective  
&  
Marine  
Coatings**

# HI-SOLIDS POLYURETHANE

PART S	<b>B65-300</b>	<b>GLOSS SERIES</b>
PART S	<b>B65-350</b>	<b>SEMI-GLOSS SERIES</b>
PART S	<b>B65WW305</b>	<b>MR, WHITE TINT BASE (GLOSS)</b>
PART T	<b>B60V30</b>	<b>HARDENER</b>

Revised: April 27, 2016

## APPLICATION BULLETIN

5.21

### 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

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.

#### Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required.

#### Galvanized Steel

Allow to weather a minimum of six months prior to coating. Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning 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. Primer required.

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

#### Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.  
 ASTM D4259 Standard Practice for Abrading Concrete.  
 ASTM D4260 Standard Practice for Etching Concrete.  
 ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.  
 SSPC-SP 13/Nace 6 Surface Preparation of Concrete.  
 ICRI No. 310.2R Concrete Surface Preparation.

#### Surface Preparation Standards

Condition of Surface	ISO 8501-1	Swedish Std.	SSPC	NACE
	BS7079:A1	SIS056900		
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: 35°F (1.7°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/Clean Up

Below 80°F (27°C) ..... Reducer #69, R7K69 or R7K111  
 Above 80°F (27°C)..... Reducer #58 or R6K32

#### Airless Spray

Pressure.....2500 - 2800 psi  
 Hose.....3/8" ID  
 Tip .....013" - .017"  
 Filter .....none  
 Reduction.....As needed up to 10% by volume

#### Conventional Spray

Gun .....Binks 95  
 Fluid Nozzle .....63 B  
 Atomization Pressure ....50 - 70 psi  
 Fluid Pressure.....20 - 25 psi  
 Reduction.....As needed up to 15% by volume

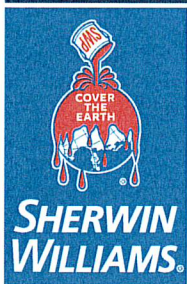
#### Brush

Brush.....Natural bristle  
 Reduction.....As needed up to 15% by volume

#### Roller

Cover .....3/8" woven with solvent resistant core  
 Reduction.....As needed up to 15% by volume

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



# Protective & Marine Coatings

# HI-SOLIDS POLYURETHANE

PART S	B65-300	GLOSS SERIES
PART S	B65-350	SEMI-GLOSS SERIES
PART S	B65WW305	MR, WHITE TINT BASE (GLOSS)
PART T	B60V30	HARDENER

Revised: April 27, 2016

## APPLICATION BULLETIN

5.21

### 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 4 parts by volume of Part S with 1 part by volume of Part T. 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)	4.5 (112)	8.0 (200)
Dry mils (microns)	3.0 (75)	5.0 (125)
~Coverage sq ft/gal (m <sup>2</sup> /L)	208 (5.1)	347 (8.5)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1040 (25.5)	

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

#### Drying Schedule @ 4.5 mils wet (112 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
To touch:	4 hours	2 hours	1 hour
To handle:	16 hours	8 hours	5 hours
To recoat:			
minimum	24 hours	18 hours	10 hours
maximum	14 days	14 days	14 days
To cure:	14 days	10 days	7 days
Pot Life:	8 hours	4 hours	2 hours
Sweat-in-Time:	None required		

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

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 #58. Clean tools immediately after use with Reducer #58. Follow manufacturer's safety recommendations when using any solvent.

### 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.

### 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 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 #58.

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

Quick-Thane Urethane Accelerator is acceptable for use. See data page 5.97 for details.

E-Z Roll Urethane Defoamer is acceptable for use. See data page 5.99 for details.

R7K69 reducer is acceptable at temperature both above and below 80°F (28°C).

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

### 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.