

# ANODIZED COLORS



## AaCron colors and finishes

- AACRON OFFERS THE WIDEST RANGE OF TIME TESTED LIGHTFAST ANODIZED COLORS IN THE INDUSTRY. ALL COLORS REPRESENTED ON THIS CHART ARE SUITABLE FOR EXTERIOR APPLICATIONS.
- Colors are shown on this chart with a mattee finish. All colors are available in both mattee and bright finishes. Mattee finish codes end in "M" and Bright finish codes end in "B".
   Please call to request bright samples.
  - MAXIMUM PART LENGTH FOR MATTE CLEAR AND MATTE BRONZE COLORS (101 M THRU 103 M & 300 M THRU 307 M) IS 40 FEET. ALL OTHER COLORS AND ALL BRIGHT FINISHES HAVE A MAXIMUM LENGTH OF 21 FEET.
  - LARGER SAMPLES OF ALL COLORS AND FINISHES ARE AVAILABLE UPON REQUEST.



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101 M Clear

SHERWIN	Protective & Marine Coatings				M 218 HS URETHANE GLOSS SERIES SEMI-GLOSS SERIES
WILLIAMS.	0		PART B	B65V600	Hardener
Revised 2/12		PRODUCT IN	FORMATION	1	5.22
<b>P</b> RODUCT <b>D</b> ESCRIPTION		Recommended Uses			
<ul> <li>ACROLON 218 HS is a low VOC, polyester modified, aliphatic, acrylic polyurethane formulated specifically for in-shop applications. Also suitable for industrial applications. A fast drying, urethane that provides color and gloss retention for exterior exposure.</li> <li>Can be used directly over organic zinc rich primers (epoxy zinc primer and moisture cure urethane zinc primer)</li> <li>Color and gloss retention for exterior exposure</li> <li>Fast dry</li> <li>Outstanding application properties</li> </ul>		For use over prep environments suc • Structural steel • Rail cars and lo • Conveyors • Bridges • Wind Towers - c • Offshore platfor	h as: • Tanł	sonry surfaces in industrial < exteriors elines os l production	
Pr	RODUCT <b>C</b> HARACTERIS	STICS	<ul> <li>Conforms to AW</li> </ul>	WA D102 Outside Co	pating Systems #4 (OCS-4),

Substrate\*: Steel

System Tested\*:

\*unless otherwise noted below

## PRODUCT CULLENCTER

<b>P</b> RODUCT <b>C</b> HARACTERISTICS					
Finish:	Finish: Gloss of		or Semi-Gloss		
Color: Wide ra		ange of colors available			
Volume Solids:	65% ±	2%, mixed, may	vary by color		
Weight Solids:	78% ±	2%, mixed, may	vary by color		
VOC (EPA Method mixed Redu mixed Redu	uced 10% with F	educed: <300 g/L; 2.5 lb/gal h R7K15: <340 g/L; 2.8 lb/gal MEK, R6K10: <340 g/L; 2.8 lb/gal			
Mix Ratio:			volume, 1 gallon or 5 gallon mixes asured components		
Recomm	ended Sprea	ding Rate per	r coat:		
		Minimum	Maximum		
Wet mils (micro	ns)	<b>4.5</b> (112.5)	<b>9.0</b> (225)		
Dry mils (micror	ns)	<b>3.0</b> (75)	<b>6.0</b> (150)		
~Coverage sq f	t <b>/gal</b> (m²/L)	<b>175</b> (4.3)	<b>346</b> (8.5)		
Theoretical covera	ge <b>sq ft/gal</b>	<b>1040</b> (25.5)			
(m <sup>2</sup> /L) @ 1 mil / 25 microns dft NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.					
Drying Schedule @ 6.0 mils wet (150 microns):					
	@ 35°F/1.7°C	@ 77°F/25°C	@ 120°F/49°C		
To touch:	4 hours	50% RH 30 minutes	20 minutes		
To handle:	18 hours	6 hours	4 hours		
To recoat:			4 110013		
minimum:	18 hours	8 hours	6 hours		
maximum:	3 months	3 months	3 months		
To cure:	fo cure: 14 days		5 days		
Pot Life: (reduced 5% with Re	2 hours	45 minutes			
Sweat-in-Time: None					
If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent. Paint temperature must be at least 40°F (4.5°C) minimum.					

Shelf Life:	Part A - 36 months, unopened Part B - 24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
Flash Point:	55°F (13°C), Seta, mixed
Reducer/Clean Up: Spray:	Reducer R7K15, MEK R6K10, or R7K111
Brush / Roll:	Reducer #132, R7K132 or R7K111

Test Name	Test Method	Results
Abrasion Resistance <sup>1</sup>	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	43 mg loss
Adhesion	ASTM D4541	975 psi
Corrosion Weathering <sup>2</sup>	ASTM D5894, 9 cycles, 3024 hours	Rating 10 per ASTM D610, for rusting; Rating 10 per ASTM D714, for blistering
Direct Impact Resistance <sup>1</sup>	ASTM D2794	50 in. lb.
Dry Heat Resistance <sup>1</sup>	ASTM D2485, Method A	200°F (93°C)
Flexibility <sup>1</sup>	ASTM D522, 180° bend, 1/8" mandrel	Passes
Humidity Resistance <sup>2</sup>	ASTM D4585, 100°F (38°C), 1500 hours	Rating 10 per ASTM D610, for rusting; Rating 10 per ASTM D714, for blistering
Pencil Hardness	ASTM D3363	3H
Salt Fog Resistance <sup>2</sup>	ASTM B117, 7000 hours	Rating 10 per ASTM D610, for rusting; Rating 9 per ASTM D714, for blistering

#5 (OCS-5) & #6 (OCS-6)
Acceptable for use in high performance architectural applications
A component of INFINITANK

**Performance Characteristics** 

1 ct. Macropoxy 646 @ 6.0 mils (150 microns) dft 1 ct. Acrolon 218 HS Gloss @ 4.0 mils (100 microns) dft

Surface Preparation\*: SSPC-SP10/NACE 2

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

Complies with ISO 12944-5 C5I and C5M requirements.

Footnotes:	
<sup>1</sup> Finish coat only	tested
<sup>2</sup> Primer	Zinc-Clad II Plus
Intermediate	Macropoxy 646
Finish	Acrolon 218 HS



# ACROLON<sup>™</sup> 218 HS **ACRYLIC POLYURETHANE**

Part A	B65-600
Part A	B65-650
Part B	B65V600

**GLOSS SERIES** SEMI-GLOSS SERIES HARDENER

## **PRODUCT INFORMATION**

5.22

<b>D</b>			
Recommended Systems			SURFACE PREPARATION
Dry Steel:	Film Thick <u>Mils</u>	ness / ct. ( <u>Microns)</u>	Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to
1 ct. Macropoxy 646 1-2 cts. Acrolon 218 HS Polyurethane	5.0-10.0 3.0-6.0	(125-250) (75-150)	ensure adequate adhesion. Refer to product Application Bulletin for detailed surface prepara- tion information.
Steel: 1 ct. Zinc Clad II Plus 1 ct. Macropoxy 646 1-2 cts. Acrolon 218 HS Polyurethane	3.0-5.0 5.0-10.0 3.0-6.0	(75-125) (125-250) (75-150)	Minimum recommended surface preparation: * Iron & Steel: SSPC-SP6/NACE 3, 1-2 mil (25-50 micron) profile * Galvanizing: SSPC-SP1 * Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3
Steel: 1 ct. Zinc Clad IV 1-2 cts. Acrolon 218 HS Polyurethane Steel:	3.0-5.0 3.0-6.0	(75-125) (75-150)	* Primer required Surface Preparation Standards Condition of ISO 8501-1 Swedish Std. Surface BS7079:A1 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 SP 6 3
1 ct. Corothane I-GalvaPac Zinc Primer 1-2 cts. Acrolon 218 HS Polyurethane	3.0-4.0 3.0-6.0	(75-100) (75-150)	Commercial Blast Sa 2 Sa 2 SP 6 3 Brush-Off Blast Sa 1 Sa 1 Sa 1 SP 7 4 Hand Tool Cleaning Pitted & Rusted D St 2 D St 2 SP 2 - Power Tool Cleaning Pitted & Rusted D St 3 D St 3 SP 3 -
Steel: 1 ct. Epoxy Mastic Aluminum II 1 2 ct. Asrolan 218 HS. Bolyurathana	6.0	(150)	Tinting
1-2 cts. Acrolon 218 HS Polyurethane Steel:	3.0-6.0	(75-150)	<ul> <li>Tint Part A with Maxitoner Colorants.</li> <li>Extra white tints at 100% tint strength</li> <li>Ultradeep base tints at 150% tint strength</li> </ul>
1 ct. Recoatable Epoxy Primer 1-2 cts. Acrolon 218 HS Polyurethane	4.0-6.0 3.0-6.0	(100-150) (75-150)	Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.
Concrete/Masonry: 1 ct. Kem Cati-Coat HS Epoxy Filler/Sealer	10.0-20.	0(250-500)	Application Conditions           Temperature:         35°F (1.7°C) minimum, 120°F (49°C) maximum (air and surface)
1-2 cts. Acrolon 218 HS Polyurethane	3.0-6.0	(75-150)	maximum (air and surface) 40°F (4.5°C) minimum, 120°F (49°C) maximum (material) At least 5°F (2.8°C) above dew point
Aluminum/Galvanizing: 1 ct. DTM Wash Primer 1-2 cts. Acrolon 218 HS Polyurethane	0.7-1.3 3.0-6.0	(18-32) (75-150)	Relative humidity:       85% maximum         Refer to product Application Bulletin for detailed application information.
ISO 12944 C5M System:			Ordering Information
<ol> <li>t. Zinc Clad III HS</li> <li>t. Tower Guard Epoxy</li> <li>t. Acrolon 218 HS</li> </ol>	3.0-5.0 5.0-11.5 3.0-6.0	(75-125) (125-287.5) (75-150)	Packaging:         1 gallon (3.78L) mix: 5 gallon (18.9L) mix:           Part A:         .86 gal (3.25L)         4.29 gal (16.2L)           Part B:         .14 gal (0.53L)         0.71 gal (2.7L)           (premeasured components)
			Weight: 11.2 ± 0.2 lb/gal ; 1.3 Kg/L mixed, may vary with color
			SAFETY PRECAUTIONS
		duct's uso	Refer to the MSDS sheet before use.
The systems listed above are representative of the product's use, other systems may be appropriate.			Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.
Disclaimer			WARRANTY
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.			The Sherwin-Williams Company warrants our products to be free of manufactur- ing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defec- tive 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 MER- CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



# ACROLON<sup>™</sup> 218 HS ACRYLIC POLYURETHANE

Part A Part A Part B B65-600 B65-650 B65V600 GLOSS SERIES SEMI-GLOSS SERIES HARDENER

5.22

## **APPLICATION BULLETIN**

## 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

Revised 2/12

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 (1-2 mils / 25-50 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. 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 or before flash rusting occurs. Primer required.

## **Concrete and Masonry**

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, 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. 310.2 Concrete Surface Preparation.

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

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	Application Conditions		
Te	mperature:	35°F (1.7°C) minimum, 120°F (49°C) maximum (air and surface) 40°F (4.5°C) minimum, 120°F (49°C) maximum (material) At least 5°F (2.8°C) above dew point	
Re	elative humidity:	85% maximum	
	Appl	ICATION 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:

Spray	Reducer R7K15, MEK R6K10, or R7K111
Brush/Roll	Reducer #132, R7K132, or R7K111
If reducer is used, red	uce at time of catalyzation.

## **Airless Spray**

Pressure	2500 - 2800 psi
Hose	
Тір	013"017"
Filter	60 mesh
Reduction	As needed up to 10% by volume with
	R7K15 or R7K111, or up to 9% with
	MEK, R6K10*

## **Conventional Spray**

Gun	Binks 95
Сар	63P
Atomization Pressure	50 - 70 psi
Fluid Pressure	20 - 25 psi
Reduction	As needed up to 10% by volume with
	R7K15 or R7K111, or up to 9% with
	MEK, R6K10*

### Brush

Brush	Natural Bristle
Reduction	As needed up to 10% by volume*

## Roller

Cover	3/8" woven with solvent resistant core
Reduction	As needed up to 10% by volume*

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

\* Note: Reducing more than maximum recommended level will result in VOC exceeding 340g/L



# ACROLON<sup>™</sup> 218 HS ACRYLIC POLYURETHANE

Part A	B65-600	GLOSS SERIES
Part A	B65-650	SEMI-GLOSS SERIES
Part B	B65V600	Hardener

## **APPLICATION BULLETIN**

5.22

Application Procedures	Performance Tips
Surface preparation must be completed as indicated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.
Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine six parts by volume of Part A with one part by volume of Part B (premeasured components). Thoroughly agitate	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.
the mixture with power agitation. Re-stir before using.	Spreading rates are calculated on volume solids and do not include
If reducer is used, add only after both components have been thoroughly mixed.	an application loss factor due to surface profile, roughness or po- rosity 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
Apply paint at the recommended film thickness and spreading rate as indicated below:	film build.
Recommended Spreading Rate per coat:	Excessive reduction of material can affect film build, appearance, and adhesion.
Minimum Maximum	Do not apply the material beyond recommended pot life.
Wet mils (microns)         4.5 (112.5)         9.0 (225)	Do not apply the material beyond recommended pot life.
Dry mils (microns)         3.0 (75)         6.0 (150)           ~Coverage sq ft/gal (m²/L)         175 (4.3)         346 (8.5)	Do not mix previously catalyzed material with new.
Theoretical coverage <b>sq ft/gal</b> (m²/L) @ 1 mil / 25 microns dft <b>1040</b> (25.5)	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer
NOTE: Brush or roll application may require multiple coats to	#15, R7K15 or MEK, R6K10.
achieve maximum film thickness and uniformity of appearance.	
Drying Schedule @ 6.0 mils wet (150 microns):	Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.
@ 35°F/1.7°C   @ 77°F/25°C   @ 120°F/49°C	
50% RH	Quick-Thane Urethane Accelerator is acceptable for use. See data page 5.97 for details.
To touch: 4 hours 30 minutes 20 minutes	page 5.97 for details.
To handle: 18 hours 6 hours 4 hours	E-Z Roll Urethane Defoamer is acceptable for use. See data page
To recoat: minimum: 18 hours 8 hours 6 hours	5.99 for details.
maximum: 3 months 3 months 3 months	
<b>To cure:</b> 14 days 7 days 5 days	
Pot Life: 4 hours 2 hours 45 minutes	
(reduced 5% with Reducer R7K15)	
Sweat-in-Time: None	
If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.	
Paint temperature must be at least 40°F (4.5°C) minimum.	Refer to Product Information sheet for additional performance characteristics and properties.
Application of coating above maximum or below minimum	
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.	SAFETY PRECAUTIONS
	Refer to the MSDS sheet before use.
CLEAN UP INSTRUCTIONS	Published technical data and instructions are subject to change without notice.
Clean spills and spatters immediately with Reducer #132, R7K132.	Contact your Sherwin-Williams representative for additional technical data and
Clean tools immediately after use with Reducer #132, R7K132.	instructions.
Follow manufacturer's safety recommendations when using any solvent.	WARRANTY
Disclaimer	The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures.
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.	Liability for products proven defective, if any, is limited to replacement of the de- fective 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 MER- CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## **MATERIAL SAFETY DATA SHEET**

DATE OF PREPARATION Dec 6, 2011

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

## PRODUCT NUMBER B58W620 PRODUCT NAME MACROPOXY® 646-100 Fast Cure Epoxy (Part A), Mill White MANUFACTURER'S NAME THE SHERWIN-WILLIAMS COMPANY 101 Prospect Avenue N.W. Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com	
Regulatory Information	(216) 566-2902	
	www.paintdocs.com	
Medical Emergency	(216) 566-2917	
Transportation Emergency* (800) 424-9300		
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accide		

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.2	100-41-4		Ginta	Vapor i ressure
0.2	100-41-4	Ethylbenzene	100 001	
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
1	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
21	98-56-6	p-Chlorobenzotrifluo	oride	
		ACGIH TLV	Not Available	5.3 mm
		OSHA PEL	Not Available	
9	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
8	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
29	13463-67-7	Titanium Dioxide	· ·	
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## **SECTION 3 — HAZARDS IDENTIFICATION**

#### **ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Causes burns.

SKIN: Causes burns.

**INHALATION:** Irritation of the upper respiratory system.

HMIS CodesHealth3\*Flammability2Reactivity0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems: • the liver

- the urinary system
- the reproductive system

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

## MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

### SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention IMMEDIATELY.

- SKIN: Wash affected area thoroughly with soap and water.
  - If irritation persists or occurs later, get medical attention.
  - Remove contaminated clothing and launder before re-use.
- INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

## **SECTION 5 — FIRE FIGHTING MEASURES**

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
141 °F PMCC	0.9	10.5	Combustible, Flash above 99 and below 200 °F

**EXTINGUISHING MEDIA** 

Carbon Dioxide, Dry Chemical, Foam

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

#### STORAGE CATEGORY

#### DOL Storage Class IIIA

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are

ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### **PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2. **EYE PROTECTION** 

To prevent eye contact, wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

#### **OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	13.41 lb/gal	1606 g/l
SPECIFIC GRAVITY	1.61	
BOILING POINT	281 - 292 °F	138 - 144 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	28%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC The	eoretical - As Packa	ged)
0.29 lb/gal 34 g/l	Less Water and Fed	lerally Exempt Solvents
0.21 lb/gal 26 g/l	Emitted VOC	

## SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY None known. HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Monoxide HAZARDOUS POLYMERIZATION

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

#### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

#### TOXICOLOGY DATA

CAS No.	Ingredient Name				
100-41-4	Ethylbenzene				
	•	LC50 RAT	4HR	Not Available	
		LD50 RAT		3500 mg/kg	
1330-20-7	Xylene				
	-	LC50 RAT	4HR	5000 ppm	
		LD50 RAT		4300 mg/kg	
98-56-6	p-Chlorobenzotriflue	oride			
	-	LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
68410-23-1	Polyamide				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
14807-96-6	Talc				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
13463-67-7	Titanium Dioxide				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	

## SECTION 12 — ECOLOGICAL INFORMATION

## ECOTOXICOLOGICAL INFORMATION

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

#### US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

## UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity. UN1263, PAINT, CLASS 3, PG III, (61 C c.c.), EmS F-E, S-E, ADR (D/E) IATA/ICAO

UN1263, PAINT, 3, PG III

## **SECTION 15 — REGULATORY INFORMATION**

#### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.2	
1330-20-7	Xylene	1	

#### CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

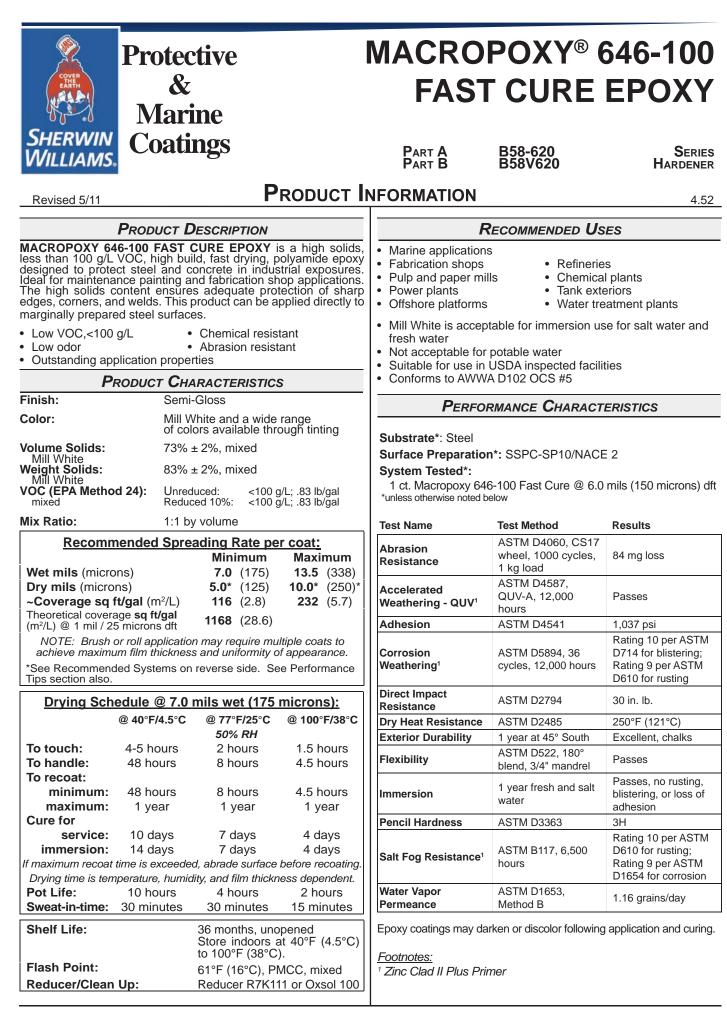
## TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## **SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.





# MACROPOXY® 646-100 FAST CURE EPOXY

Liability for products proven defective, if any, is limited to replacement of the defec-

tive 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 MER-

CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

 PART A
 B58-620

 PART B
 B58V620

Series Hardener

4.52

## PRODUCT INFORMATION

Recommended Systems			Surface Preparation		
D	ry Film Thio	kness/ct			
	Mils	(Microns)	Surface must be clean, dry, and in sound condition, Remove all		
Immersion and atmospheric:			Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to		
Steel:			ensure adequate adhesion.		
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	Refer to product Application Bulletin for detailed surface preparation in-		
	0.0 10.0	(120-200)	formation.		
Concrete/Masonry, smooth:			Minimum recommended surface preparation: Iron & Steel		
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	Atmospheric: SSPC-SP2/3		
Concrete Block:			Immerision: SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile		
1 ct. Kem Cati-Coat HS Epoxy Filler/Sealer	10.0-20.0	(250-500)	Aluminum: SSPC-SP1 Galvanizing: SSPC-SP1		
as needed to fill voids and provide a co		( )	Concrete & Masonry		
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2,		
		( /	Immersion: CSP 1-3 SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or		
Atmospheric:			ICRI No. 310.2, CSP 1-3		
*Steel:	D100	- I I	Surface Preparation Standards		
(Shop applied system, new construction, AWW,			Condition of ISO 8501-1 Swedish Std. Surface BS7079:A1 SIS055900 SSPC NACE		
used at 3 mils (75 microns) dft when used as a	nintermedia	lite	White Metal Sa 3 Sa 3 SP 5 1		
coat as part of a multi-coat system) 1 ct. Macropoxy 646-100 Fast Cure Epoxy	3.0-6.0	(75-150)	Near White Metal         Sa 2.5         Sa 2.5         Sp 10         2           Commercial Blast         Sa 2         Sa 2         Sa 2         Sp 10         2           Brush-Off Blast         Sa 1         SP 7         4		
1-2 cts. of recommended topcoat	3.0-0.0	(75-150)	Brush-Off Blast Sa 1 Sa 1 SP 7 4 Hand Tool Cleaning Brusted C St 2 C St 2 SP 2 -		
1-2 cls. of recommended topcoat			Hand Tool Cleaning Rusted CSt2 CSt2 SP 2 - Hand Tool Cleaning Pitted & Rusted DSt2 DSt2 SP 2 - Power Tool Cleaning Rusted DSt2 SP 3 -		
Steel:			Power Tool Cleaning Rusted & Rusted D St 3 C St 3 SP 3 - Pitted & Rusted D St 3 D St 3 SP 3 -		
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)			
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	TINTING		
Steel:			Tint Part A with Maxitoners at 150% strength. Five minutes minimum mixing		
1 ct. Macropoxy 646-100	4.0-6.0		on a mechanical shaker is required for complete mixing of color.		
1-2 cts. Acrolon 218 Polyurethane	3.0-6.0	(75-150)	Tinting is not recommended for immersion service.		
or Hi-Solids Polyurethane	3.0-5.0	(75-125)	Tinting is not recommended for immersion service.		
or SherThane 2K Urethane	2.0-4.0	(50-100)	Application Conditions		
Steel:			Temperature: 40°F (4.5°C) minimum, 140°F (60°C) maximum		
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	(air, surface, and material)		
1-2 cts. Tile-Clad HS Epoxy	2.5-4.0	(63-100)	At least 5°F (2.8°C) above dew point		
Steel:			Relative humidity: 85% maximum		
1 ct. Zinc Clad II Plus	3.0-6.0	(75-150)	Defende werdent Andling Dellette fan detalled om lingthe informatien		
1 ct. Macropoxy 646-100	5.0-10.0	(125-250)	Refer to product Application Bulletin for detailed application information.		
1-2 cts. Acrolon 218 Polyurethane	3.0-6.0	(75-150)			
		()	Ordering Information		
Steel:	2050	(75 105)	Packaging:		
1 ct. Zinc Clad III HS or Zinc Clad IV	3.0-5.0 3.0-5.0	(75-125) (75-125)	Part A: 1 gallon (3.78L) and 5 gallon (18.9L) containers Part B: 1 gallon (3.78L) and 5 gallon (18.9L) containers		
or Zinc Clad IV 1 ct. Macropoxy 646-100	3.0-5.0 5.0-10.0	(75-125) (125-250)			
1-2 cts. Hi-Solids Polyurethane-100	3.0-10.0 3.0-6.0	(75-150)	Weight: 13.24 ± 0.2 lb/gal ; 1.6 Kg/L		
	0.0 0.0	(10 100)	mixed, may vary by color		
Aluminum:					
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	SAFETY PRECAUTIONS		
Galvanizing:			Refer to the MSDS sheet before use.		
2 cts. Macropoxy 646-100	5.0-10.0	(125-250)	Published technical data and instructions are subject to change without notice.		
		. ,	Contact your Sherwin-Williams representative for additional technical data and		
The systems listed above are representative o	f the produc	t's use, other	instructions.		
systems may be appropriate.					
Diago and			WARRANTY		
Disclaimer The information and recommendations set forth in			The Sherwin-Williams Company warrants our products to be free of manufactur- ing defects in accord with applicable Sherwin-Williams guality control procedures		

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.

	Protectiv & Marine		Γ		DPOXY® T CURE		
Sherwin Williams.	Coatings	5		Part A Part B	B58-620 B58V620	Series Hardener	
Revised 5/11		<b>A</b> PPLICA		N BULLETIN		4.52	
	SURFACE PREPAR	ATIONS		ŀ	PPLICATION CONDIT	TONS	
oil, dust, grease, ensure adequate a	dirt, loose rust, and adhesion.	nd condition. Remov other foreign materi	/e all ial to	Temperature:	maximum (air, surface, ar	ninimum, 140°F (60°C) nd material) 8°C) above dew point	
Iron & Steel, Atmo Minimum surface p Remove all oil and SSPC-SP1. For bet	<b>spheric Service:</b> preparation is Hand 1 I grease from surfact ter performance, use	ool Clean per SSPC by Solvent Cleanin Commercial Blast Cle faces using a sharp, ar ils / 50 microns). Prim usting occurs.	S-SP2.	Relative humidity:	85% maximum		
per SSPC-SP6/NAC abrasive for optimul bare steel within 8 h	CE 3, blast clean all sur m surface profile (2 m nours or before flash r	faces using a sharp, ar ils / 50 microns). Prim usting occurs.	ngular ne any	APPLICATION EQUIPMENT			
Iron & Stool Immo	rsion Sorvice:	e by Solvent Cleanin n is Near White Metal t clean all surfaces us ace profile (2-3 mils / nd all sharp edges by s it is cleaned.		be needed for pro equipment before compliant with exis	guide. Changes in press per spray characteristics use with listed reducer. A sting VOC regulations ar ental and application cor	s. Always purge spray Any reduction must be nd compatible with the	
Aluminum Remove all oil, greas Cleaning per SSPC	se, dirt, oxide and othe -SP1.	r foreign material by So	olvent	Reducer/Clean U	pReducer R7K1	11 or Oxsol 100	
Colverined Steel		hs prior to coating. So Int is VM&P Naphtha). has been treated with SSPC-SP1 and apply c before testing adhes SP7 is necessary to re res a minimum of Hand the same day as clear		Hose Tip Filter	2800 - 3000 ps		
and mortar must be all loose mortar and concrete dust, dirt, f loose cement and ha with Steel-Seam FT	ation, refer to SSPC-3 faces should be thorou o cured at least 28 dar foreign material. Surfi orm release agents, n ardeners. Fill bug holes 910.	SP13/NACE 6, or ICF ghly clean and dry. Cor vs @ 75°F (24°C). Re acce must be free of lait ooisture curing membr a air pockets and other	emove tance, ranes, voids	Fluid Tip Air Nozzle Atomization Pre Fluid Pressure	DeVilbiss MBC E 704 ssure60-65 psi 10-20 psi		
		P13/NACE 6, Section			As needed up t I moisture separators	o 10% by volume	
Follow the standar ASTM D4258 Stand ASTM D4259 Stand ASTM D4260 Stand ASTM F1869 Stand Emission Rate of C SSPC-SP 13/Nace ICRI No. 310.2 Con	rd methods listed be lard Practice for Clear lard Practice for Abrac lard Practice for Etchi dard Test Method for oncrete. 6 Surface Preparation crete Surface Prepara	low when applicable hing Concrete. hing Concrete. ng Concrete. Measuring Moisture of Concrete. ttion.	e: Vapor	Reduction	Nylon/Polyeste	ded	
Previously Painted If in sound condition hard or glossy coatii surface. Apply a test adhesion. If adhesii finish, removal of th peeling or badly wea as a new surface as	I Surfaces , clean the surface of a ngs and surfaces shou area, allowing paint to on is poor, or if this p e previous coating m athered, clean surface	all foreign material. Sm Id be dulled by abradin dry one week before roduct attacks the pre ay be necessary. If pa to sound substrate and		Reduction	3/8" woven with Not recomment ion equipment is not lis substituted.	ded	
Co	ndition of ISO 8501-1 Irface BS7079:A1 Sa 3 Sa 2.5	Swedish Std.         SSPC         N           Sa 3         SP 5         1           Sa 2.5         SP 10         2           Sa 2         SP 6         1           Sa 1         SP 7         4           C St 2         SP 2         -           D St 2         SP 2         -           D St 3         SP 3         -	I				



# **MACROPOXY® 646-100 FAST CURE EPOXY**

Part A Part B B58-620 B58V620

**S**ERIES HARDENER

**APPLICATION BULLETIN** 

-4	.52

Application Procedures				Performance Tips
Surface preparation must be completed as indicated.			icated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.
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			ow speed power ne bottom of the A with one part	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
agitation. Allow the material to sweat-in as indicated prior to ap- plication. Re-stir before using.			ated prior to ap-	Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or po- rosity 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.
If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.			mponents have	
Apply paint at the recommended film thickness and spreading rate as indicated below:			and spreading	Excessive reduction of material can affect film build, appearance, and adhesion.
Recommended Spreading Rate per coat: Minimum Maximum			<u>r coat:</u> Maximum	Do not mix previously catalyzed material with new.
Wet mils (micro	,	<b>7.0</b> (175)	<b>13.5</b> (338)	Do not apply the material beyond recommended pot life.
Dry mils (micro ~Coverage sq f Theoretical cover	f <b>t/gal</b> (m²/L) age <b>sq ft/gal</b>	<ul> <li>5.0* (125)</li> <li>116 (2.8)</li> <li>1168 (28.6)</li> </ul>	<b>10.0</b> * (250)* <b>232</b> (5.7)	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R7K111 or Oxsol 100.
(m²/L) @ 1 mil / 25 microns dft NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.			ltiple coats to f appearance.	Insufficient ventilation, incomplete mixing, miscatalyzation, and external heaters may cause premature yellowing.
*See Recommended Systems on reverse side. See Performance Tips section also.			e Performance	Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.
Drying Schedule @ 7.0 mils wet (175 microns):			microns):	Tinting is not recommended for immersion service.
	@ 40°F/4.5°C	@ 77°F/25°C	@ 100°F/38°C	Use only Mil White for immersion service.
To touch:	4-5 hours	<i>50% RH</i> 2 hours	1.5 hours	Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.
To handle: To recoat:	48 hours	8 hours	4.5 hours	Application of coating above maximum or below minimum
minimum:	48 hours	8 hours	4.5 hours	recommended spreading rate may adversely affect coating performance.
maximum: Cure for	1 year	1 year	1 year	<b>For Immersion Service:</b> (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.
service: immersion:	10 days 14 days	7 days 7 days	4 days 4 days	When coating over aluminum and galvanizing, recommended dft is 2-4 mils (50-100 microns).
If maximum recoat time is exceeded, abrade surface before recoating.				dft is 2-4 mils (50-100 microns).
Drying time is temperature, humidity, and film thickness dependent.			-	Acceptable for Concrete Floors.
Pot Life:	10 hours	4 hours	2 hours 15 minutes	
Application of co				Refer to Product Information sheet for additional performance characteristics and properties.
recommended spreading rate may adversely affect coating performance.			affect coating	SAFETY PRECAUTIONS
CLEAN UP INSTRUCTIONS			Refer to the MSDS sheet before use.	
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			Reducer R7K111	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.
when using any solvent.				WARRANTY
Disclaimer				The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams guality control procedures.
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.			Williams Company. bject to change and nsult your Sherwin-	Liability for products proven defective, if any, is limited to replacement of the de- fective 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 MER- CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.