



# Protective & Marine Coatings

# MAGNALUX™ 1100 POLYESTER PRIMER

PART A B88H110 BUFF  
PART B B88V92 MAGNALUX P2 (MEKP BLEND)

Revised: July 7, 2025

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

**MAGNALUX 1100** is a polyester primer for both Bis A vinyl esters and novolac vinyl esters. It is designed to have a long over coat/recoat of up to 28 days @ 70°F/21°C (not in direct sunlight). Magnalux 1100 is also designed to promote adhesion to concrete and metal substrates, and improve mechanical stresses such as impact, tensile and flexural stress.

- Resists thermal stress
- Superior adhesion to concrete and metal substrates
- Long recoat window
- High Tensile strength
- Improved adhesion
- Improved Impact resistance

### PRODUCT CHARACTERISTICS

**Finish:** Semi-gloss  
**Color:** Translucent/Buff - Translucent at recommended film build  
**Volume Solids:** 100% reactive  
 Note: Magnalux 1100 is a reactive material, however some shrinkage will occur in application due to styrene evaporation as well as normal spray losses. Resulting practical volume solids will be a approximately 77%.  
**VOC:** <250 g/L; 2.1 lb/gal, mixed (EPA Method 24, D2369-10)  
**Mix Ratio:** Use Magnalux P2 pre-measured catalyst at the rate of 98:2. Do NOT USE Inhibitor!

### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	<b>3.0 (75)</b>	<b>5.0 (125)</b>
<b>Dry mils (microns):</b>	<b>2.0 (50)</b>	<b>4.0 (100)</b>

Lining is 100% reactive, however, practical coverage rate is based on 77 ± 2% volume solids.

**Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft:** **1604 (39.4)**

**Practical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft over a CSP 3:** **1235 (30.4)**

Varies with system and application. See recommended systems. Not to be used as a stand-alone coating.

### Drying Schedule @ 3.0 mils wet (75 microns):

	@ 50°F/10°C	@ 73°F/23°C 50% RH	@ 90°F/32°C
<b>To touch:</b>	1.5 hours	1 hour	50 minutes
<b>To recoat:</b>			
<b>minimum:</b>	3 hours	2 hours	1 hour
<b>maximum*:</b>	30 days	28 days	15 days
<b>To cure:</b>	48 hours	24 hours	16 hours

\*Strong sunlight (UV) will cause rapid cure and substantially reduce overcoating time. High ambient or substrate temperatures will as well. If uncertain, take a clean cloth saturated with acetone and rub the surface. Allow the acetone to evaporate or dry off the surface and immediately check surface for a tacky or sticky feel. If tacky or sticky it's within the recoat, if not then the coating surface will have to be abraded.

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

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

**Pot Life:** 2 hours 1 hour 30 minutes  
**Sweat-in-time:** Not required

### PRODUCT CHARACTERISTICS (CONT'D)

**Shelf Life:** 6 months, unopened  
Store indoors at 73°F (23°C).  
**Viscosity:** 2,100 cps  
**Reducer:** For Concrete surfaces only, it is recommended to dilute with Magnalux Styrene only 2%.  
**Clean Up:** MEK

### RECOMMENDED USES

- Magnalux 1100 is used in immersion or atmospheric exposure as a primer for novolac vinyl esters and vinyl ester tank lining and secondary containment systems
- Can be used as part of a system to fabricate corrosion resistant flexible laminates
- Suitable for both concrete and steel atmospheric and immersion services up to 140°F/60°C

### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Adhesion (to steel)</b>	ASTM D4541	1,430 psi (10 Mpa)
<b>Barcol Hardness</b>	ASTM D2583	32+
<b>Compressive Strength</b>	BS6319: Part 2: 1983	17,500 psi (120.6 Mpa)
<b>Direct Impact</b>	ASTM D2794	35.4 in lbs (4J)
<b>Flexibility</b>	BS2782: Part 10: Method 1005:1977 EN63	5439 psi (37.5 Mpa)
<b>Indirect Impact</b>	ASTM D2794	17.7 in lbs (2J)
<b>Tensile Elongation</b>	ASTM D638	1.05%
<b>Tensile Strength</b>	ASTM D638	3452 psi (23.8 Mpa)



# Protective & Marine Coatings

# MAGNALUX™ 1100 POLYESTER PRIMER

**PART A** B88H110 **BUFF**  
**PART B** B88V92 **MAGNALUX P2 (MEKP BLEND)**

Revised: July 7, 2025

## PRODUCT INFORMATION

### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Concrete or Steel (lining): Laminate</b>			
1 ct.	Magnalux 1100	2.0-4.0	(50-100)
1-2 cts.	Magnalux 1500PF as required for filling pits and transitioning sharp edges, weld seams, etc., or to fill voids and bugholes in concrete		
1 ct.	Magnalux 1200 with 1-1/2 oz glass mat	40.0-50.0	(1000-1250)
1-2 cts.	Magnalux 2100FF	15.0-40.0	(375-1000)
1 ct.	(optional) Magnalux 2500WX	8.0-16.0	(200-400)
<b>Concrete or Steel (lining): Laminate</b>			
1 ct.	Magnalux 1100	2.0-4.0	(50-100)
1-2 cts.	Magnalux 1500PF as required for filling pits and transitioning sharp edges, weld seams, etc., or to fill voids and bugholes in concrete		
1-2 cts.	Magnalux 1200 with 1-1/2 oz glass mat	40.0-50.0	(1000-1250)
1-2 cts.	Magnalux 2100FF	15.0-40.0	(375-1000)
1 ct.	(optional) Magnalux 2500WX	8.0-16.0	(200-400)
<b>Concrete or Steel (coating, lining, containment): Medium Film Lining</b>			
1 ct.	Magnalux 1100	2.0-4.0	(50-100)
1-2 cts.	Magnalux 1500PF as required for filling pits and transitioning sharp edges, weld seams, etc., or to fill voids and bugholes in concrete		
1 ct.	Magnalux 2100FF	14.0-20.0	(350-500)
1 ct.	Magnalux 2500WX	8.0-16.0	(200-400)
<b>Medium Film Lining</b>			
1 ct.	Magnalux 1100	2.0-4.0	(50-100)
1-2 cts.	Magnalux 1500PF as required for filling pits and transitioning sharp edges, weld seams, etc., or to fill voids and bugholes in concrete		
1 ct.	Magnalux 2100FF	20.0-30.0	(500-750)
1 ct.	*Magnalux 2500WX	8.0-16.0	(200-400)

\*Optional topcoats are available based on chemical resistance - Magnalux 2200GF and Magnalux 2300AR.

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:

Iron & Steel:	
Atmospheric:	SSPC-SP6/NACE 3, 2 mil (50 micron) sharp and angular profile [Medium (G) (ISO 8503-2)]
Immersion:	SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) sharp and angular profile [Medium (G) (ISO 8503-2)]
Concrete & Masonry:	
Atmospheric:	SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-6
Immersion:	SSPC-SP13/NACE 6-4.3.1 or 4.3.2

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

### TINTING

Do not tint.

### APPLICATION CONDITIONS

Temperature:	50°F (10°C) minimum, 90°F (32°C) maximum (air, surface, material) At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.78L) and 5 gallons (18.9L)
Part B:	2.7 oz (80 mL) and 13.5 oz (400 mL) filled bottles

### SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

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

### WARRANTY

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



# Protective & Marine Coatings

# MAGNALUX™ 1100 POLYESTER PRIMER

PART A B88H110 BUFF  
PART B B88V92 MAGNALUX P2 (MEKP BLEND)

Revised: July 7, 2025

## 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 (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. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

#### Iron & Steel (atmospheric service)

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

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-6. 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. If surface deterioration presents an unacceptably rough surface, prime with Magnalux 1100. Patch and resurface with Magnalux 1500PF. Fill all cracks, voids and bugholes with Magnalux 1500PF (over Magnalux 1100).

**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.

#### 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 3-6.

#### 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	SP 3	-

### APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 90°F (32°C) maximum  
(air, surface, 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.

**Reduction** ..... For Concrete surfaces only, it is recommended to dilute with Magnalux Styrene only 2%.

**Cleanup** ..... MEK

#### Airless Spray

Pump Ratio ..... 30:1  
Fluid Hose ..... 3/8" ID  
Tip Orifice ..... 0.017" - 0.021"  
Fan Width at 12" ..... 12" - 14"  
Tip Pressure ..... 2200-3000 psi  
Filter Screen ..... None

#### Brush

Brush ..... Natural bristle

#### Roller

Cover ..... 3/8" nap with solvent resistant core

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



# Protective & Marine Coatings

# MAGNALUX™ 1100 POLYESTER PRIMER

PART A B88H110 BUFF  
PART B B88V92 MAGNALUX P2 (MEKP BLEND)

Revised: July 7, 2025

## APPLICATION BULLETIN

### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

**Mixing Instructions:** Store in a temperature controlled environment, 50°F (10°C) to 80°F (26°C), and out of direct sunlight. At a rate of 98:2, use pre-measured MEKP blended Magnalux P2 bottles: 2.7 oz (80mL) for 1 gallon Part A, 13.5 oz (400 mL) for 5 gallon Part A. Do NOT USE Inhibitor!

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

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils</b> (microns):	3.0 (75)	5.0 (125)
<b>Dry mils</b> (microns):	2.0 (50)	4.0 (100)

Lining is 100% reactive, however, practical coverage rate is based on 77 ± 2% volume solids.

**Theoretical coverage sq ft/gal**  
(m<sup>2</sup>/L) @ 1 mil / 25 microns dft: **1604** (39.4)

**Practical coverage sq ft/gal**  
(m<sup>2</sup>/L) @ 1 mil / 25 microns dft  
over a CSP 3: **1235** (30.4)

Varies with system and application. See recommended systems. Not to be used as a stand-alone coating.

#### Drying Schedule @ 3.0 mils wet (75 microns):

	@ 50°F/10°C	@ 73°F/23°C 50% RH	@ 90°F/32°C
<b>To touch:</b>	1.5 hours	1 hour	50 minutes
<b>To recoat:</b>			
<b>minimum:</b>	3 hours	2 hours	1 hour
<b>maximum*:</b>	30 days	28 days	15 days
<b>To cure:</b>	48 hours	24 hours	16 hours

\*Strong sunlight (UV) will cause rapid cure and substantially reduce overcoating time. High ambient or substrate temperatures will as well. If uncertain, take a clean cloth saturated with acetone and rub the surface. Allow the acetone to evaporate or dry off the surface and immediately check surface for a tacky or sticky feel. If tacky or sticky it's within the recoat, if not then the coating surface will have to be abraded.

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

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

**Pot Life:** 2 hours 1 hour 30 minutes  
**Sweat-in-time:** Not required

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

### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with MEK. Clean tools immediately after use with MEK. 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

Read and understand the individual Systems Installation Procedures for thin film linings, medium film linings, laminate linings, self-leveling, mortars, mortar laminates and heavy duty mortar laminates.

For concrete, appropriate moisture testing should be conducted prior to applying the coating.

For steel, stripe coat all chine, welds, bolted connections, and sharp angels to prevent early failure in these areas.

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. There is often a difference between the measured wet film thickness (WFT) and the true applied wet film thickness – this is due in part to inaccuracy in WFT measurement and flow and leveling characteristics.

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

Store in a temperature controlled environment, 50°F (10°C) to 80°F (26°C), and out of direct sunlight. Keep resins, catalysts, and solvents separated from each other and away from sources of ignition.

Allow primer to become tacky prior to application of subsequent coating or lining system. If planning to install subsequent system after the primer has fully cured, lightly sprinkle 40-60 mesh silica sand into the primer prior to its curing. Adhere to recoat drying schedule indicated in the Application Procedures.

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

When applying in direct sunlight it is important to test recoat prior to applying additional topcoats. Use the acetone rub test and check for a tacky feeling on the surface. If no tacky feeling, the surface will have to be abraded prior to additional topcoats.

Consult your Sherwin-Williams representative for specific application and performance recommendations.

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

### SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

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

### WARRANTY

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