

# Metalatex®

## Semi-Gloss Coating

B42-100 Series


**SHERWIN  
WILLIAMS®**

### CHARACTERISTICS

**METALATEX SEMI-GLOSS COATING** is a durable interior-exterior multi-purpose, 100% acrylic emulsion coating. Designed for new construction and maintenance applications in light to moderate industrial environments.

- Mild alkali - acid resistance
- Interior - Exterior maintenance coating
- Outstanding application characteristics
- Suitable for use in USDA inspected facilities

#### Recommended for use in:

- Buildings & Warehouses
- Equipment & Machinery
- Storage Tanks & Piping
- Manufacturing Facilities & New Construction
- Interior or Exterior

#### For use on properly prepared:

Steel, Galvanized and Aluminum, Wood Concrete and Masonry, Previously Painted and Zinc rich primers

**Finish:** 30-50° @60°

**Color:** Most colors, safety colors available

#### Recommended Spreading Rate per coat:

B42W00111 (may vary by base)

Wet mils: 4.0-11.0

Dry mils: 1.5-4.1

Coverage: 144-395 sq. ft. per gallon

**Theoretical Coverage:** 593 sq. ft. per gallon @ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss.

#### Drying Schedule @ 4.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

	@55°F	@77°F	@100°F
To touch	3 hours	30 minutes	10 minutes
To handle	7 hours	1 hour	1 hour
To recoat	18 hours	4 hours	3 hours

#### Tinting with CCE:

Base	oz. per gallon	Strength
Extra White	0-6	SherColor
Deep Base	4-14	SherColor
Ultradeep Base	10-14	SherColor

#### Extra White B42W00111

(may vary by color)

#### V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

**Volume Solids:** 37 ± 2%

**Weight Solids:** 46 ± 2%

**Weight per Gallon:** 9.68 lb

**Flash Point:** N.A.

**Vehicle Type:** Acrylic

**Shelf Life:** 36 months, unopened

### COMPLIANCE

As of 08/11/2021, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	No

### APPLICATION

#### Temperature:

minimum	55°F / 12.7°C
maximum	100°F / 38°C
	air, surface, and material
	At least 5°F above dew point

**Relative humidity:** 85% maximum

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 compatible with the existing environmental and application conditions.

**Reducer:** Water

#### Airless Spray:

Pressure	2500 p.s.i.
Hose	1/4 inch I.D.
Tip	.015 inch
Filter	60 mesh

#### Conventional Spray:

Gun	Binks 95
Fluid Nozzle	66
Air Nozzle	63 PB
Atomization Pressure	50 p.s.i.
Fluid Pressure	20-50 p.s.i.

**NOTE:** reduction as needed up to 12.5 percent by volume

**Brush** Nylon-polyester

**Roller Cover** 3/8 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness and spreading rate as indicated. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

Mix paint thoroughly to a uniform consistency with slow speed power agitation prior to use.

Stripe coat 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.

During the early stages of drying, the coating is sensitive to rain, dew, high humidity and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

### SPECIFICATIONS

#### Steel and Rusted Galvanized:

1 coat Pro Industrial Pro-Cryl Primer or Pro Industrial DTM Primer/Finish  
2 coats Metalatex Semi-Gloss

#### Steel alkyd primer:

1 coat Kem Bond HS  
2 coats Metalatex Semi-Gloss

#### Aluminum and Galvanized waterbased primer:

1 coat Pro Industrial Pro-Cryl Primer or Pro Industrial DTM Primer/Finish  
2 coats Metalatex Semi-Gloss

#### Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller  
2 coats Metalatex Semi-Gloss

#### Concrete and Masonry:

1 coat Loxon Concrete and Masonry Primer or Loxon Conditioner

2 coats Metalatex Semi-Gloss

#### Drywall:

1 coat ProMar 200 Zero V.O.C. Primer  
2 coats Metalatex Semi-Gloss

#### Prefinished Siding (baked-on finishes):

1 coat DTM Bonding Primer  
2 coats Metalatex Semi-Gloss

#### Previously Painted:

2 coats Metalatex Semi-Gloss

#### Wood, exterior:

1 coat Exterior Wood Primer  
2 coats Metalatex Semi-Gloss

#### Wood, interior:

1 coat Premium Wall and Wood Primer  
2 coats Metalatex Semi-Gloss

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

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## Semi-Gloss Coating

### SURFACE PREPARATION

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse.

#### **Do not use hydrocarbon solvents for cleaning.**

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

**Iron & Steel** - Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Hand Tool Clean per SSPC-SP2. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer required for best performance. Prime any bare steel within 8 hours or before flash rusting occurs.

**Aluminum** - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

**Galvanizing** - Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. When 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-SP16 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 Block** - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 55°F (13°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer. The filler must be thoroughly dry before topcoating.

**Masonry** - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/ ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F (23.9°C). Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat alkali resistant primer, following label recommendations. Primer required.

**Wood** - Surface must be clean, dry, and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile.

### SURFACE PREPARATION

**Prefinished Siding (baked-on finishes)**- Remove oil, grease, dirt, oxides, and other contaminants from the surface by cleaning per SSPC-SP1 or water blasting per NACE Standard RP-01-72. Always checks for compatibility of the previously painted surface with the new coating by applying a test patch of 2 - 3 square feet. Allow to dry thoroughly for 1 week before checking adhesion. DTM Bonding Primer is required.

**Previously Painted Surface** - 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, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

**Mildew**- Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### PERFORMANCE

**System Tested:** (unless otherwise indicated)

**Substrate:** Steel

**Surface Preparation:** SSPC-SP10

**Finish:** 2 coats Metalatex 3.0 mils D.F.T.

**Abrasion Resistance<sup>1</sup>:**

Method: ASTM D4060, CS17 wheel

1000 cycles 1 kg load

Result: 34.1 p.s.i.

**Adhesion<sup>1</sup>:**

Method: ASTM D4541

Result: 906 psi

**Direct Impact Resistance<sup>1</sup>:**

Method: ASTM D2794

Result: greater than 176 inch lb.

**Dry Heat Resistance:**

Method: ASTM D2485

Result: 250°F

**Flexibility:**

Method: ASTM D522, 1/4 inch mandrel

Result: Pass

**Humidity Resistance:**

Method: ASTM D4585, 1156 hours

Result: Rating 10 per ASTM D714 for blistering. Rating 9.5 per ASTM D1654 for corrosion

**Pencil Hardness<sup>1</sup>:**

Method: ASTM D3363

Result: 1B

<sup>1</sup>2 finish coats 6 mils W.F.T

Provides performance comparable to products formulated in lieu of the federal specification: AA50570, and Paint Specification: SSPC-Paint 24.

### SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDS) before use.

#### **FOR PROFESSIONAL USE ONLY.**

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

### CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

HOTW	08/11/2021	B42W00111	39 46
HOTW	08/11/2021	B42W00113	31 45
HOTW	08/11/2021	B42T00104	47 48