

Pro Industrial™**Direct-To-Metal Alkyd Enamel Semi-Gloss**

B55-1100 Series

**SHERWIN
WILLIAMS.****CHARACTERISTICS**

Pro Industrial™ Direct-To-Metal Alkyd Enamel is a high-build alkyd coating with rust inhibitive properties for application directly to bare steel.

Features:

- Good gloss and color retention
- Corrosion resistance and finish coat protection in one product
- Excellent application properties
- Excellent block resistance
- Suitable for use in USDA inspected facilities

For use over properly prepared

Structural steel, Previously painted, Primed Galvanized and Aluminum

Recommended for use in:

- Interior-Exterior • New Construction • Railings
- Machinery • Structural Steel • Steel Doors • Steel decking • Storage Tanks • Primer Finish
- Repaints • Bar Joists • Piping • Fire Escapes • Conveyors

Finish: 50-60° @ 60° Semi-Gloss

Color: Pure White, Deep, Ultradeep Base

Recommended Spreading Rate per coat:

Wet mils: 7.0-13.0
Dry mils: 3.0-5.6
Coverage: 123-229 sq. ft. per gallon
Theoretical Coverage: 689 sq. ft. per gallon @ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss. **Note:** Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 7.0 mils wet, @ 50% RH:

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

	@77°F	@120°F
To touch	1-3 hours	1 hour
To handle	4-6 hours	1.5 hours
To recoat	18 hours	18 hours

Tinting with BAC:

Base	oz. per gal	Strength
Pure White	0-5	SherColor
Deep Base	4-11	SherColor
Ultradeep Base	10-11	SherColor

Check color before using. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Pure White B55W01101

(may vary by color)

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

441 grams per litre; 3.68 lbs. per gallon
As per 40 CFR 59.406

Volume Solids:

43 ±2%

Weight Solids:

59 ±2%

Weight per Gallon:

9.08 lbs

Flash Point:

101°F PMCC

Shelf Life:

36 months, unopened

COMPLIANCE

As of 11/03/2023, Complies with:

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

APPLICATION**Temperature:**

minimum 40°F / 4.4°C
maximum 120°F / 49°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 complaint solvent. Any reduction must be compatible with the existing environmental and applications conditions.

Reducer: Not Recommended

Airless Spray:

Pressure 2400 p.s.i.
Hose 3/8 inch I.D.
Tip .019 inch

Conventional Spray:

Gun: Binks 95
Fluid Nozzle 63 B
Air Nozzle 63 PB
Atomization Pressure 50 p.s.i.
Fluid Pressure 20-25 p.s.i.

Brush: Natural Bristle

Roller Cover: 3/8 inch woven with solvent resistant core

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. 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 loss during mixing, spillage, over thinning, climatic conditions, and excessive film build.

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 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 Light Service:**

1 coat Pro Industrial Direct-To-Metal Alkyd Enamel

Steel Moderate Service:

2 coats Pro Industrial Direct-To-Metal Alkyd Enamel

Steel Alkyd Primer:

1 coat Pro Industrial Kem Bond® HS Primer Or

1 coat Pro Industrial Kem Kromik® Primer

1 coat Pro Industrial Direct-To-Metal Alkyd Enamel

Steel Acrylic Primer:

1 coat Pro Industrial Pro-Cryl® Primer

1 coat Pro Industrial Direct-To-Metal Alkyd Enamel

Aluminum:

1 coat Pro Industrial Pro-Cryl Primer

1 coat Pro Industrial Direct-To-Metal Alkyd Enamel

Galvanized:

1 coat Pro Industrial Pro-Cryl Primer

1 coat Pro Industrial Direct-To-Metal Alkyd Enamel

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

Direct-To-Metal Alkyd Enamel Semi-Gloss

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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 and Steel - 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). 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. Primer required.

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. Primer required.

Concrete and Masonry - For surface preparation, refer to SSPC-SP13-Nace 6/ ICRI No. 03732, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Air, material, and surface temperatures must be at least 55°F (12.7°C) before filling. If required for a smoother finish, use the recommended filler/surfacer. The filler/surfacer must be thoroughly dry before topcoating per manufacturer's recommendations. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get a hard, firm surface. Apply one coat of Loxon Conditioner, following label recommendations Primer required

Drywall - Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting. Exterior surfaces must be spackled with exterior grade compounds. 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. Primer required.

SURFACE PREPARATION

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, or if this product attacks the previous finish, 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 clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean 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

Pure White B55W01101

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

Primer: 1 coat Pro Industrial Kem Bond HS @ 1.9 Mils D.F.T.

Finish: 1 coat Pro Industrial Direct-To-Metal @ 3.0 Mils D.F.T.

Dry Heat Resistance:

Method: ASTM D2485
Result: 200°F

Abrasion Resistance:

Method: ASTM D4060
Result: 138 mg loss

Adhesion:

Method: ASTM D4541
Result: 709 p.s.i.

Flexibility:

Method: ASTM D522, 1/8 inch mandrel
Result: Pass

Corrosion Weathering:

Method: ASTM D5894, 10 cycles
Result: Rating 9, per ASTM D714 for Blistering
Rating 9, per ASTM D1654 for Corrosion

Direct Impact Resistance:

Method: ASTM D2794
Result: 56 inch lb.

Humidity Resistance:

Method: ASTM D4585, 500 hours
Result: Rating 6, per ASTM D714 for Blistering
Rating 10, per ASTM D1654 for Corrosion

Pencil Hardness:

Method: ASTM D3363
Result: HB

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 & tools with compliant cleanup solvent. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

HOTW	11/01/2023	B55W01101	45	441
HOTW	11/01/2023	B55W01113	23	445
HOTW	11/01/2023	B55T01104	40	442

FRC, SP