

Steel Master™ 9500

30% Silicone Alkyd

B56-300 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

STEEL MASTER 9500 is an exterior-interior, 30% silicone alkyd, protective topcoat. Dries to a tough, flexible finish with very good gloss and color retention and long term exterior durability for a single component alkyd product.

For use on properly prepared

Steel, Concrete and Masonry, Primed Galvanized & Aluminum

Features:

- Excellent color and gloss retention compared to conventional alkyds
- High gloss providing a "wet look"
- Can be applied as low as 45°F (7°C)
- Easy application properties
- Interior-Exterior application
- Suitable for use in USDA inspected facilities

Recommended for use in:

- Interior-exterior • Machinery • Structural Steel
- Signs • Logo and identification enamel
- Buildings • Bar joists • Piping, tanks

Color: Extra White, Clear Tint Base, Safety Colors and Black

Recommended Spreading Rate per coat: (may vary by base)

Wet mils: 3.5-5.0

Dry mils: 2.2-3.2

Coverage sq. ft. per gallon: 320-466

Theoretical coverage: sq. ft. 1026

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 @ 4.0 mils wet, @ 50% RH:

@50°F @77°F @100°F

To touch 5 hours 4 hours 1 hour

To handle 2.5 days 8 hours 8 hours

To recoat 2.5 days 18 hours 8 hours

To cure 30 days 14 days 3 days

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

Tinting with Maxitoner or GIC:

Base	Strength
Extra White	100%
Clear Tint Base	100%

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

Finish: 80°+ @60° Gloss

Extra White B56W00311

(may vary by color)

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

307 grams per litre; 2.56 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 64 ± 2%

Weight Solids: 76 ± 2%

Weight per Gallon: 10.82 lb

Flash Point: 112°F PMCC

Shelf Life: E.W., Black 36 months,
Tint Base, Yellow 24 months unopened

COMPLIANCE

As of 10/15/2021, Complies with:

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

APPLICATION

Temperature:

minimum 45°F / 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: Not recommended

Airless Spray:

Pressure 2700-3000 p.s.i.

Hose 3/8 inch I.D.

Tip .013-.017 inch

Filter 100 mesh

Conventional Spray:

Gun Binks 95

Fluid Nozzle 63B

Air Nozzle 63PB

Atomization Pressure 50-60 p.s.i.

Fluid Pressure 10-20 p.s.i.

Brush Natural Bristle

Roller Cover 1/4-3/8" lambswool or synthetic cover

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 lost 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 a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

SPECIFICATIONS

Steel Alkyd Primer:

1 coat Kem Bond HS Primer

or

1 coat Kem Kromik Universal Metal Primer

2 coats Steel Master 9500

Steel Acrylic Primer:

1 coat Pro Industrial Pro-Cryl Primer

2 coats Steel Master 9500

Aluminum:

1 coat DTM Wash Primer

or

1 coat Galvite HS

2 coats Steel Master 9500

Galvanizing:

1 coat DTM Wash Primer

or

1 coat Galvite HS

2 coats Steel Master 9500

Concrete Block:

1 coat Pro Industrial Heavy Duty Block Filler

2 coats Steel Master 9500

Concrete and Masonry:

1 coat Loxon Concrete and Masonry Primer

2 coats Steel Master 9500

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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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.

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 - 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. Primer required.

Aluminum (untreated) - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Primer required. Primer required.

Galvanizing (untreated) - 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. Primer required.

Concrete Block - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 50°F (10°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon 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.

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, 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.

Other substrates may or may not be appropriate. If a specific substrate is not listed above, consult your Sherwin-Williams representative for more information.

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

Extra White B56W00311

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

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

Finish: 1 coat Steel Master 9500 @ 2.2 Mils D.F.T.

Abrasion Resistance:
Method: ASTM D4060
Result: 89 mg loss

Adhesion:
Method: ASTM D4541
Result: 692 p.s.i.

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

Direct Impact Resistance:
Method: ASTM D2794
Result: 48 inch lb.

Dry Heat Resistance:
Method: ASTM D2485
Result: 200°F

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

Humidity Resistance:
Method: ASTM D4585, 500 hours
Result: Rating 10 per ASTM D714 for blistering. Rating 10 per ASTM D1654 for corrosion

Pencil Hardness:
Method: ASTM-D3363
Result: HB

Do not use colorants formulated for interior use only when applying exterior.

No reduction of material is recommended as it can affect film build, appearance, and adhesion.

SAFETY PRECAUTIONS

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

HOTW	10/15/2021	B56W00311	19 307
HOTW	10/15/2021	B56T00304	15 300
HOTW	10/15/2021	B56B00300	10 308
HOTW	10/15/2021	B56Y00300	15 311