

Opti-Bond™

Multi-Surface Coating

B50W00100 White



**SHERWIN
WILLIAMS.**

CHARACTERISTICS

Opti-Bond™ Multi-Surface Coating is a one coat, rust inhibitive, interior-exterior, alkyd finish for ceilings and overhead expanses. Opti-Bond can be directly applied over a variety of surfaces in a single coat to provide uniform color and improved light reflectance. Contains Portland Cement.

Features:

- Interior-Exterior applications
- Corrosion resistant
- Compatible with a variety of substrates
- Suitable for use in USDA inspected facilities

For use over properly prepared

Steel, Concrete-Masonry, Previously painted, Galvanized & Aluminum

Recommended for use in:

- Overhead decking
- Joists
- Concrete ceilings
- Beams
- Conduit

Finish 0-5° @85° Flat

Color: White

Recommended Spreading Rate per coat:

Wet mils: 3.5-6.0
Dry mils: 2.0-3.4
Coverage: 264-449 sq. ft. per gallon
Theoretical Coverage: 898 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 @ 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	2 hours	1 hour	30 minutes
To handle	2.5 hours	2 hours	1 hour
To recoat	16 hours	12 hours	4 hours
To cure	10 days	7 days	3 days

Tinting: DO NOT TINT

White B50W00100

V.O.C. (less exempt solvents): as mixed
337 grams per litre; 2.81 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 57 ±2%
Weight Solids: 78 ±2%
Weight per Gallon: 12.90 lbs
Flash Point: 101°F TCC
Shelf Life: 36 months, unopened

COMPLIANCE

As of 05/02/2023, 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 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.

Reducer: No
Reduction Required

Airless Spray:
Pressure 2800 p.s.i.
Hose 3/8 inch I.D.
Tip .019-.021 inch
Filter 60 mesh
Reduction Not recommended

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.

SPECIFICATIONS

Steel:

2 coats Opti-Bond

Aluminum:

2 coats Opti-Bond

Galvanizing:

2 coats Opti-Bond

Concrete Block:

1 coat Pro industrial Heavy Duty Block Filler
Or

1 coat Kem Cati-Coat Epoxy Filler- Sealer

1-2 coats Opti-Bond

Concrete/Masonry:

1-2 coats Opti-Bond

Previously Painted:

1-2 coats Opti-Bond

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

Opti-Bond™

Multi-Surface Coating

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). Coat 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 50°F (10°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Kem Cati-Coat Epoxy Filler-Sealer.

Concrete and 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. 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. Laitance must be removed.

SURFACE PREPARATION

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.

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

PERFORMANCE

White B50W00100

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP 6

Finish: 1 coat Opti-Bond @ 3.0-3.3 Mils D.F.T.

Dry Heat Resistance:

Method: ASTM D2485

Result: 170°F-200°F (intermittent)

Density¹:

Result: 12.96-13.26

Flexibility:

Method: ASTM D522, 180° bend,
1/8 inch mandrel

Result: Pass

Fineness of Grind¹:

Method: Hegman

Result: 1 minimum

Sag Test¹:

Method: ASTM D4400

Result: 9 mils minimum

Viscosity¹:

Method: Krebs Units

Result: 84-90 KU

¹Standard test based on Certificate of Analysis

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 5/02/2023 B50W00100 12 337