



Protective & Marine Coatings

FAST CLAD® HB ACRYLIC

B66-410 SERIES

Revised: March 25, 2024

PRODUCT INFORMATION

1.28

PRODUCT DESCRIPTION

FAST CLAD HB ACRYLIC is a one component, fast dry, high build finish designed for one coat application directly to organic or inorganic zinc-rich primers or other recommended primers. May also be applied directly to prepared steel.

- High film build in one coat
- Superior gloss and color retention
- Fast Dry
- Outstanding early moisture resistance
- Chemical resistant
- Low odor
- Corrosion resistant

PRODUCT CHARACTERISTICS

Finish:	Semi-Gloss
Color:	Wide range of colors available
Volume Solids:	41.5% ± 2%, may vary by color
Weight Solids:	52.3% ± 2%, may vary by color
VOC (EPA Method 24):	< 200 g/L; 1.66 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	12.0 (300)	19.0 (475)
Dry mils (microns)	5.0 (125)	8.0 (200)
~Coverage sq ft/gal (m²/L)	85 (2.1)	136 (3.3)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	664 (16.3)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 12.0 mils wet (300 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 110°F/43°C
To touch:	8 hours	1 hours	15 minutes
To handle:	24 hours	5 hours	1 hour
To recoat:			
minimum:	24 hours	5 hours	1 hour
maximum*:	unlimited	unlimited	unlimited
<i>*Surface must be power washed as needed to remove all surface contaminants. Surface must be clean and dry.</i>			
To cure:	30 days	30 days	30 days
<i>Drying time is temperature, humidity, and film thickness dependent.</i>			

Shelf Life:	36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	>200°F (93°C), Seta
Reducer/Clean Up:	Water

RECOMMENDED USES

For use over prepared:

- Organic zinc rich primers
- Inorganic zinc rich primers
- Aluminum
- Primed Steel
- Galvanizing
- Concrete
- Wood

RECOMMENDED USES (CONT'D)

Examples:

- Buildings
- Machinery
- Power plants
- Select Marine Structures
- Stadiums
- Equipment
- Piping
- Bridges
- Structural Steel
- New Construction
- Storage Tank Exteriors
- Water treatment plants
- Conforms to AWWA D102 OCS #3
- Suitable for use in USDA inspected facilities
- Acceptable for use in high performance architectural applications
- Under certain atmospheric conditions, provides dryfall properties on exterior application
- Suitable for use in the Mining & Minerals Industry

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP10

System Tested*:

1 ct. Zinc Clad DOT @ 2.0-4.0 mils (50-100 microns) dft

OR

1 ct. Zinc Clad II Plus @ 2.0-4.0 mils (50-100 microns) dft

1 ct. Fast Clad HB Acrylic @ 5.0-8.0 mils (125-200 microns) dft

**unless otherwise noted below*

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1kg load	<158 mg loss
Abrasion Resistance	AASHTO R31, Section 8 Test 4	<220 mg loss
Adhesion	ASTM D4541	482 psi
Adhesion	AASHTO R31, Section 8 test 5	1916 psi
Corrosion Weathering	ASTM D5894, 6 cycles, 2,016 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering
Cyclic Weathering	AASHTO R31, Section 8 Test 3 15 cycles, 5040 hours	Blister Rating 10. Average Creep @ Scribe 0.08 inches. Color Change 2.33 ΔE. Gloss Loss 7.1 units
Direct Impact Resistance	ASTM D2794	>160 in. lbs., direct and indirect
Dry Heat Resistance	ASTM D2485	200°F (93°C)
Exterior Durability	1 year, 45° South	Excellent
Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes
Freeze Thaw	AASHTO R31, Section 8 Test 6	Average Tensile Strength - 2100 psi
Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 1000 hours	Passes
Pencil Hardness	ASTM D3363	6B
Salt Fog Resistance	ASTM B117, 5,000 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering
Salt Fog Resistance	AASHTO R31, Section 8 Test 2	Blister Rating 10. Average Creep @ Scribe 0.01 inches

Meets the performance requirements of SSPC Paint No. 36, Level 3 for white and light colors.



Protective & Marine Coatings

FAST CLAD® HB ACRYLIC

B66-410 SERIES

Revised: March 25, 2024

PRODUCT INFORMATION

1.28

RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Steel:			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Steel:			
1 ct.	Zinc Clad 4100	3.0-5.0	(75-125)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Other acceptable zinc-rich primers:			
Zinc Clad II			
Zinc Clad XI			
Fast Clad Zinc HS			
Corothane I-GalvaPac Zinc			
Acceptable intermediates:			
Macropoxy 646			
Steel Spec Epoxy Intermediate			
Steel:			
1 ct.	DTM Acrylic Primer/Finish	2.5-5.0	(63-125)
or	Kem Bond HS	2.0-5.0	(50-125)
or	ProCryl Primer	2.0-4.0	(50-100)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Steel - Light/Moderate Service:			
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Aluminum:			
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Aluminum:			
1 ct.	DTM Wash Primer	0.7-1.3	(18-32)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Galvanizing:			
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Concrete Block:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Concrete/Masonry:			
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Drywall:			
1 ct.	PrepRite 200 Latex Primer	1.0-1.5	(25-38)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Prefinished Siding: (Baked-on finishes)			
1 ct.	DTM Bonding Primer	2.0-5.0	(50-125)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Wood, exterior:			
1 ct.	A-100 Exterior Oil Wood Primer	1.5	(38)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Wood, interior:			
1 ct.	PrepRite Wall & Wood Primer	1.5	(38)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)

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.

Do not use hydrocarbon solvents for cleaning.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel:	SSPC-SP2
Aluminum:	SSPC-SP1
Galvanizing:	SSPC-SP1
Concrete & Masonry:	SSPC-SP13/NACE 6 or ICRI No. 310.2R, CSP 1-3

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

TINTING

Tint with CCE colorants only at 100% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Do not use Blend-A-Color Toners.

APPLICATION CONDITIONS

Temperature:	40°F (4.5°C) minimum, 110°F (43°C) maximum (air, surface, and 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:	1 gallon (3.78L) and 5 gallon (18.9L) containers
Weight:	10.0 ± 0.2 lb/gal 1.2 kg/L

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

FAST CLAD® HB ACRYLIC

B66-410 SERIES

Revised: March 25, 2024

APPLICATION BULLETIN

1.28

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.

Do not use hydrocarbon solvents for cleaning.

Iron & Steel

Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6.

Aluminum

Remove all oil and grease per SSPC-SP1. Self-priming.

Galvanizing

The surface should be weathered for 6 months prior to painting. Remove all oil and grease per SSPC-SP1. Self-priming.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No 310.2R, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F (13°C) before filling. Use Heavy Duty Block Filler. Filler must be thoroughly dry before topcoating per manufacturer's recommendations.

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.

Previously Painted Surfaces

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.

APPLICATION CONDITIONS

Temperature: 40°F (4.5°C) minimum, 110°F (43°C) maximum (air, surface, and 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.

Reducer/Clean Up Water

Airless Spray

Pressure.....3000 psi
Hose.....1/4" ID
Tip......015" - .019"
Filter.....60 mesh
Reduction.....Not recommended

Conventional Spray

Gun.....Binks 95
Fluid Nozzle.....63C
Air Nozzle.....63PB
Atomization Pressure.....50 psi
Fluid Pressure.....15-20 psi
Reduction.....As needed up to 10% by volume

Brush

Brush.....Nylon / polyester
Reduction.....Not recommended

Roller

Cover.....3/8" woven solvent resistant core
Reduction.....Not recommended

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

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



Protective & Marine Coatings

FAST CLAD® HB ACRYLIC

B66-410 SERIES

Revised: March 25, 2024

APPLICATION BULLETIN

1.28

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	12.0 (300)	19.0 (475)
Dry mils (microns)	5.0 (125)	8.0 (200)
~Coverage sq ft/gal (m ² /L)	85 (2.1)	136 (3.3)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	664 (16.3)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 12.0 mils wet (300 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 110°F/43°C
To touch:	8 hours	1 hours	15 minutes
To handle:	24 hours	5 hours	1 hour
To recoat:			
minimum:	24 hours	5 hours	1 hour
maximum*:	unlimited	unlimited	unlimited
*Surface must be power washed as needed to remove all surface contaminants. Surface must be clean and dry.			
To cure:	30 days	30 days	30 days
<i>Drying time is temperature, humidity, and film thickness dependent.</i>			

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 soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with Mineral Spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using Mineral Spirits.

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

Stripe coat all 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.

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.

Excessive reduction of material can affect film build, appearance, and adhesion.

Application temperature above 95°F (35°C) may cause dry spray, uneven sheen, and poor adhesion.

Fast Clad HB Acrylic is extremely sensitive to hydrocarbon containing solvents. When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent followed by a water rinse.

Under certain atmospheric conditions, provides dryfall properties on exterior application.

Do not use hydrocarbon solvents for cleaning.

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.