



Ratcliff Constructors, LP  
 4200 Beltway Drive  
 Addison, Texas 75001  
 Phone: (972) 432-9969  
 Fax: (972) 432-9943

**Project:** 21-501 - Collin County Adult Detention Facility, Phase 1 Addition  
 4300 Community Avenue  
 McKinney, Texas 75071

**Prime Contract Potential Change Order #085: Tier Fencing (Walkway & Stairs)**

<b>TO:</b>	Collin County 4600 Community Avenue McKinney Texas, 75071	<b>FROM:</b>	Ratcliff Constructors, LP 4200 Beltway Drive Addison Texas, 75001
<b>PCO NUMBER/REVISION:</b>	085 / 1	<b>CONTRACT:</b>	1 - Collin County Adult Detention Facility, Phase 1 Addition Prime Contract
<b>REQUEST RECEIVED FROM:</b>		<b>CREATED BY:</b>	CJ Perry (Ratcliff Constructors, LP)
<b>STATUS:</b>	Pending - In Review	<b>CREATED DATE:</b>	1/24 /2024
<b>REFERENCE:</b>		<b>PRIME CONTRACT CHANGE ORDER:</b>	
<b>FIELD CHANGE:</b>	No		
<b>LOCATION:</b>		<b>ACCOUNTING METHOD:</b>	Amount Based
<b>SCHEDULE IMPACT:</b>	10 days	<b>PAID IN FULL:</b>	No
		<b>TOTAL AMOUNT:</b>	\$370,569.68

**POTENTIAL CHANGE ORDER TITLE:** Tier Fencing (Walkway & Stairs)

**CHANGE REASON:** Allowance

**POTENTIAL CHANGE ORDER DESCRIPTION:** *(The Contract Is Changed As Follows)*  
 Tier Fencing (Walkway & Stairs)

Provide for additional materials, labor, and manpower required to install steel "mesh" (larger style) shop primed and field painted with SW high performance epoxy paint to match Owners suggested Viking Products RAL 7045 (as these materials are not locally available per painter). Additionally, pricing is included for engineered shop drawings as the Architect would not detail this work. See backup.

1/31/24 - Pricing revised for updated paint cost as Subcontractor did not quote correctly.

**ATTACHMENTS:**

#	Cost Code	Description	Type	Amount
1	09-980 - Special Paint Coatings	Paint	Subcontractor	\$ 33,005.50
2		All Steel Work		\$ 298,467.00
3		Shop Drawings		\$ 1,250.00
4		Ratcliff Bonds (1.25%)		\$ 4,159.03
5		Ratcliff Fee (10.00%)		\$ 33,688.15
<b>Subtotal:</b>				<b>\$370,569.68</b>
<b>Grand Total:</b>				<b>\$370,569.68</b>



Michael Woods (Brinkley Sargent  
Wiginton Architects)

5000 Quorum Drive, Suite 600  
Dallas Texas 75254

Collin County

4600 Community Avenue  
McKinney Texas 75071

Ratcliff Constructors, LP

4200 Beltway Drive  
Addison Texas 75001

SIGNATURE

DATE

SIGNATURE

DATE

SIGNATURE

DATE

*Ch B* 11/31/24




<b>Total Labor</b>	<b>\$ 12,005.00</b>
<b>Total Labor Cost</b>	<b>\$ 12,005.00</b>

<b>Total Material &amp; Labor</b>	<b>\$ 30,005.00</b>
<b>Overhead &amp; Profit (10%)</b>	<b>\$ 3,000.50</b>
<b>Total Subcontractor Proposal</b>	<b>\$ 33,005.50</b>

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# SSE

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## **SMART STEEL ERECTORS**

**716 OLD LONDON LN.**

**MESQUITE, TX 75149**

**OFFICE: (469) 422 5884**

**CELLPHONE: (469) 364-0329**

Estimated To: Christopher Perry Jr. and Brian Odom

Ratcliff Constructors, L.P.

[cj.perry@ratcliffconstuctors.com](mailto:cj.perry@ratcliffconstuctors.com)

Job: Collin County Government Office

4300 Community Ave. McKinney, TX 75071

### **MATERIAL**

5,000 square feet of vertical mesh \$13,82.00

1,500 feet of round steel tubing (1-inch 5/8) \$7,868.00

2x2x ¼ angle support on top \$2,794. 00

Add / The mesh panel is to be stitch welded to the  
existing top vertical pipe/handrail 12,000.00

### **EQUIPMENT**

2 Scissor Lifts \$3,875.00

1 Sky Truck \$7,855.00

### **FABRICATION / LABOR AND INSTALLATION and**

**primer all steel**

\$250,250.00

ALL THREE AREAS

CEO: ADRIAN CHAVARRIA

**TOTAL COST: \$298,467.00**

## DFW Shop Drawings

4309 BROADWAY AVE, STE D  
HALTOM CITY, TX 76117  
(817)2295295  
singh@dfwshopdrawings.com  
<http://www.DFWShopDrawings.com>

## INVOICE

BILL TO  
Chris Perry  
Ratcliff Constructors  
4200 Beltway Drive  
Addison, Texas 75001

INVOICE 2654  
DATE 01/25/2024  
TERMS Net 30  
DUE DATE 02/24/2024

DATE	ACTIVITY	AMOUNT
01/25/2024	Misc Shop Drawings _____ WIRE MESH _____ Shop Drawings / Detailing Project Name: CCADF PO # CHRIS PERRY SALES TAX EXCLUDED IF APPLICABLE	1,200.00

Thank You for your business

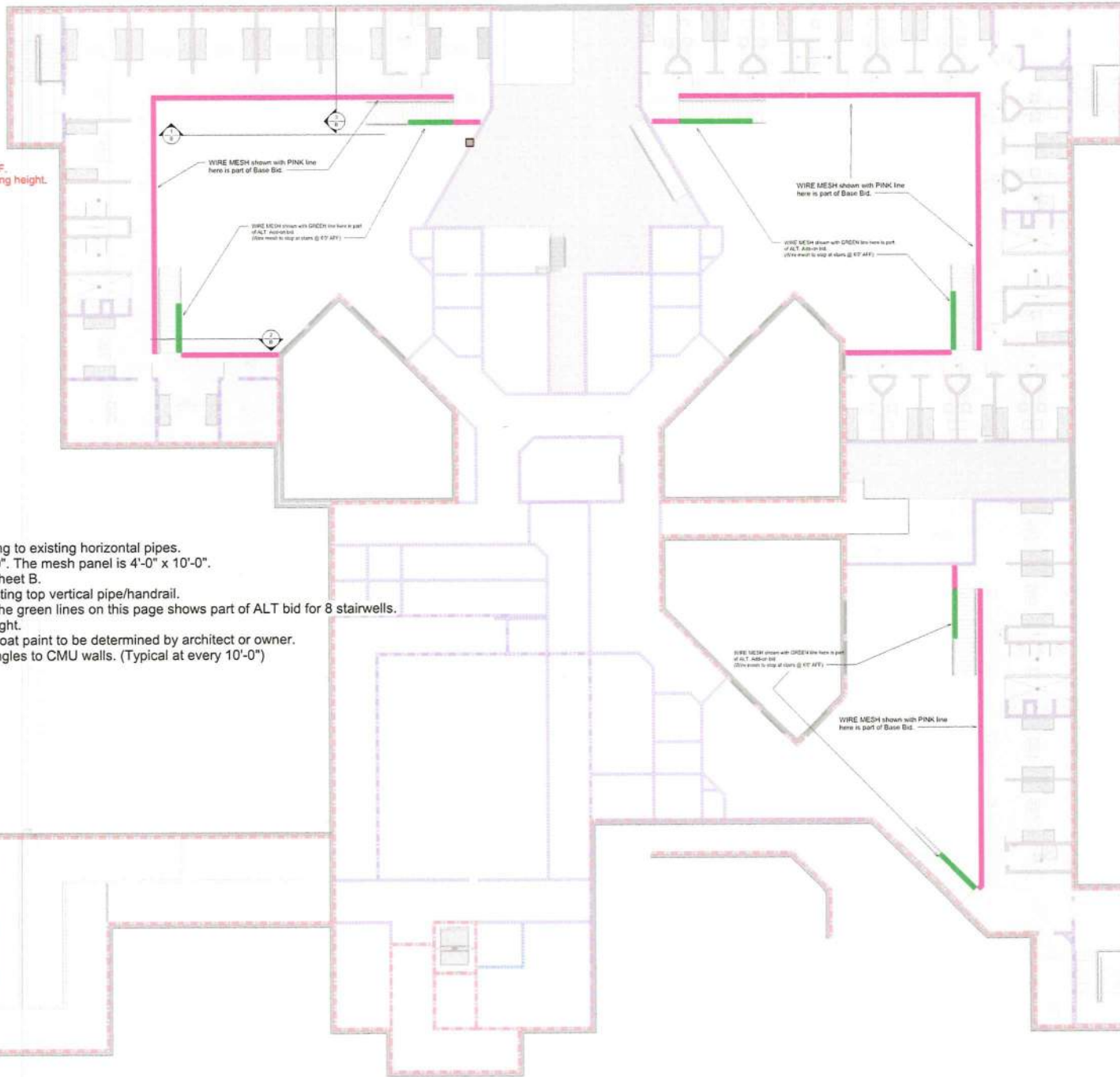
BALANCE DUE

**\$1,200.00**

Review Comments 1/18/24

- Green lines at each stairs should stop at the eighth riser AFF.
- Notes #8 Fencing height to be coordinated with revised ceiling height.
- Provide mesh "Larger Opening" as seen on image below.
- Paint color to match Viking Products Color #RAL 7045.
- Contractor to smooth any sharp edges and welds.
- GC to coordinate installation with all trades.

Larger Opening Mesh



**NOTES FOR DRAWINGS**

- The guardrail panel is at 4'-0" on center / matching to existing horizontal pipes.
- The existing railing is 4'-0". Pipe extension is 6'-0". The mesh panel is 4'-0" x 10'-0".
- The mesh panel is to be hemmed per detail on sheet B.
- The mesh panel is to be stitch welded to the existing top vertical pipe/handrail.
- Pink lines on drawings shows part of base bid. The green lines on this page shows part of ALT bid for 8 stairwells.
- Field verification must be done for wire mesh height.
- Paint all pipe and mesh with steel primer and 1 coat paint to be determined by architect or owner.
- 2x2 angles to be used above ceiling then take angles to CMU walls. (Typical at every 10'-0")



RAICLIFF  
Constructors, L.P.  
4200 Bellway Drive  
Addicks TX 75001

Submitted for Approval: 01/12/2024  
Revised per Reviewer's comments: 01/16/2024

Project Name and Address

COLLIN COUNTY ADF -PHASE 1 ADDITION

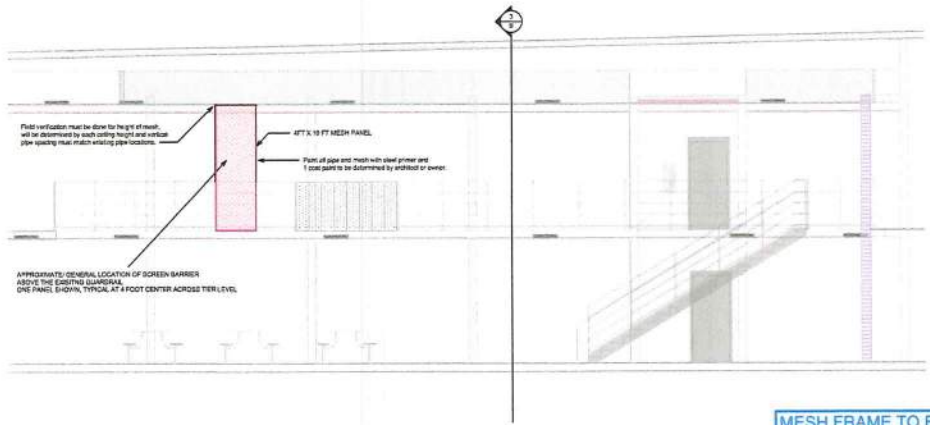
4300 COMMUNITY AVE, MCKINNEY, TX 75071

Scale: 1/8" = 1'-0"  
Single  
DWG Sheet Drawing, Scale: B  
Fort Worth, TX, 76117  
817-258-2298  
Project: 24010000000000000000

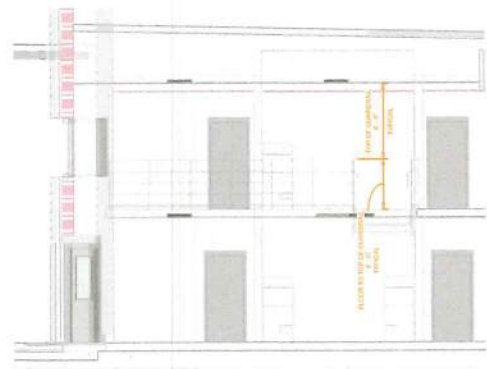
For correct Scale  
Sheet size is 30"x42"

A

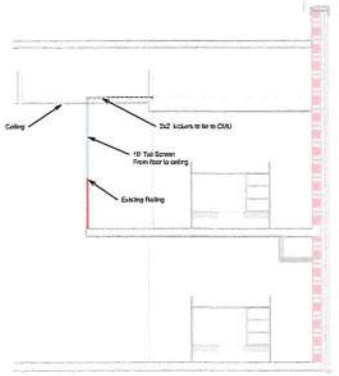




1 B  
10' x 10'

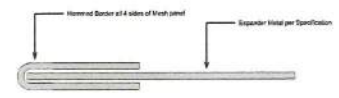


2 C  
10' x 10'



3 FENCE - SIDE VIEW  
10' x 10'

6 Hemmed Border Details  
10' x 10'

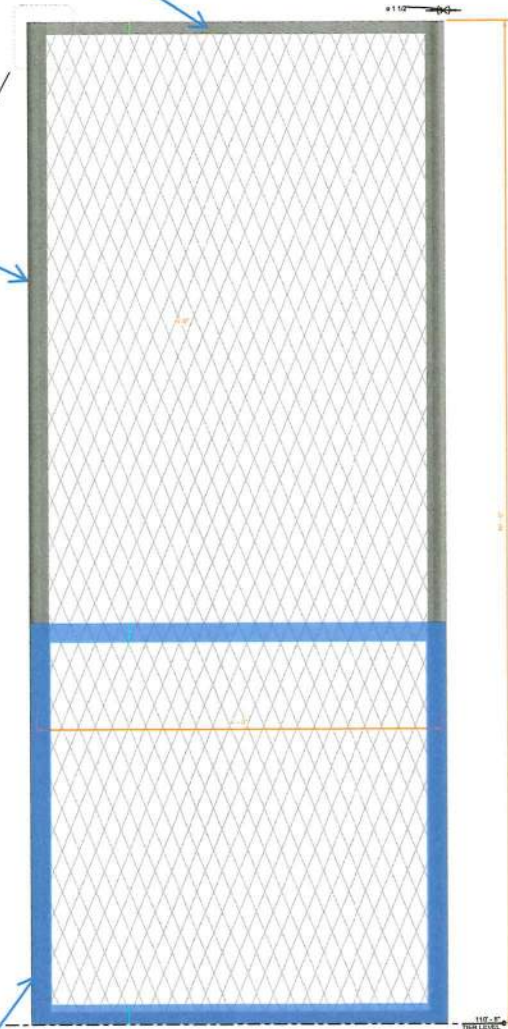


4 FENCE  
2' x 10'

OUTLINE OF MESH

MESH FRAME TO BE STITCH WELDED TO 1.5" ROUND PIPE ( TYPICAL)

OUTLINE OF EXISTING RAILING





**Chris Perry, Jr.**

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**From:** Final Mile Group LLC <finalmilet@gmail.com>  
**Sent:** Wednesday, January 24, 2024 8:31 AM  
**To:** Chris Perry, Jr.  
**Subject:** Fencing Estimate  
**Attachments:** Final Mile Change Order #4 FENCING STAIRWELLS ONLY.pdf; Final Mile Change Order #4 FENCING WALKWAY&STAIRWELLS.pdf; highperformanceepoxyspecs.pdf

Good Afternoon Chris,

Attached are the estimates for the fencing painting with epoxy paint. Unfortunately Viking products does not have a supplier in texas. They Are from Minnesota. I found Sherwin Williams high performance epoxy will give us the same end result as the viking epoxy paint. Please let me know if you have any questions or concerns,

Ronaldo Ribeiro with Final Mile Group LLC.



# Pro Industrial™ High Performance Epoxy

B67-200 Series


**SHERWIN  
WILLIAMS.**

## CHARACTERISTICS

Pro Industrial High Performance Epoxy is a high solids, two-package, epoxy polyamine for use in industrial maintenance environments and high performance architectural applications.

### Features:

- Chemical resistant
- Abrasion resistant
- Suitable for use in USDA inspected facilities

### For use on properly prepared:

Steel, Galvanized and Aluminum, Concrete and Masonry, Wood and Drywall

Finish: 80°+ @60° Gloss  
Color: Most colors

### Recommended Spreading Rate per coat:

Wet mils: 5.0-10.0  
Dry mils: 3.7-7.4

Coverage: sq.ft. per gallon 160-320

Theoretical Coverage: 1186

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 @ 5.0 mils wet, @ 50% RH:

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

	@50°F	@77°F	@100°F
To touch:	10 hrs.	8 hrs.	2 hrs.
Tack free	10 hrs.	8 hrs.	5 hrs.
Minimum recoat:	36 hrs.	8 hrs.	5 hrs.
Maximum recoat:	30 days	30 days	30 days
Pot cure	14 days	14 days	3 days
Pot Life	2.5 hrs.	2 hrs.	1 hrs.

Sweat-In-Time none required

Mix Ratio: 2 components, 4:1mix

\*If maximum recoat time is exceeded, abrade surface before recoating.

### Tinting with : BAC, Maxitoner or GIC

Base	oz. per gallon	Strength
Pure White	0-6	150%
Deep Base	6-18	150%
Ultradeep	6-18	150%

Pure White B67W00201/B67V00200  
(may vary by color)

V.O.C. (less exempt solvents): As mixed  
221 grams per litre, 1.84 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 74 ± 2%

Weight Solids: 85 ± 2%

Weight per Gallon: 12.36 lb

Flash Point: 66°F TCC

Vehicle Type: Polyamine Epoxy

Shelf Life: Part A: 12 months

Part B: 36 months

## COMPLIANCE

As of 07/15/2021, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	No
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.	No
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	Yes

## APPLICATION

Temperature:  
minimum 50°F  
maximum 110°F

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: No reduction in restricted areas  
Reducer R7K54

Airless Spray: 2800 p.s.i.

Pressure 3/8-1/2 inch I.D.

Hose .017 inch

Tip 60 mesh

Filter 60 mesh

Reduction As needed up to 10% by volume

Brush Nylon-Polyester or

natural bristle

Roller Cover 1/4-3/8 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 lost during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine four parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Re-stir before using. If reducer is used, add only after both components have been thoroughly mixed together. Do not apply the material beyond recommended pot life. Do not mix previously catalyzed material with new.

No painting should be done immediately after a rain or during foggy weather.

All epoxies will chalk and fade when un-topcoated in exterior environments. Apply appropriate topcoat if aesthetics are required.

## SPECIFICATIONS

### Steel acrylic primer:

1 coat Pro Industrial Pro-Cryl Primer  
1-2 coats Pro Industrial High Performance Epoxy

### Steel, solvent-based universal primer:

1 coat Kem Bond HS  
1-2 coats Pro Industrial High Performance Epoxy

### Concrete Block:

1-2 coats Filler-Surfacer as required to fill voids and provide a continuous surface.

### Suitable surfacers are:

Laxon Acrylic Block Surfacers,  
Pro Industrial Heavy Duty Block Filler,  
Kem Cati-Coat HS Epoxy Filler  
Cement-Plex 875  
1-2 coats Pro Industrial High Performance Epoxy

### Poured-Tilt-up Concrete (including floors):

1-2 coats Pro Industrial High Performance Epoxy

### Aluminum:

1 coat DTM Wash Primer  
or  
1 coat Pro Industrial Pro-Cryl Primer  
1-2 coats Pro Industrial High Performance Epoxy

### Galvanized:

1-2 coats Pro Industrial High Performance Epoxy

### Interior Plaster and Drywall:

1 coat ProMar 200 Zero V.O.C. Primer  
1-2 coats Pro Industrial High Performance Epoxy

### Wood:

1-2 coats Pro Industrial High Performance Epoxy

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

# Pro Industrial High Performance Epoxy

## 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). Remove all weld spatter and round all sharp edges by grinding to a minimum of ¼ inch radius. Prime any bare steel within 8 hours or before flash rusting occurs. Primer required.

**Aluminum** - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Prime the area the same day as cleaned.

**Galvanizing** - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or 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 before filling. The filler must be thoroughly dry before topcoating.

**Masonry** - For surface preparation, refer to SSPC-SP13-NACE 6 or ICRI 03732, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F 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 to a hard, firm surface.

**Wood** - Surface must be clean, dry, and sound. Paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed. 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. Self priming.

**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.

## 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. 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

Extra White B67W00201/B67V00200

**System:** (unless otherwise indicated)

**Finish:** 1 coat Pro Industrial High Performance Epoxy

**Adhesion:** 7 day cure  
**Method:** ASTM D4541  
**Result:** 627 p.s.i. minimum

**Impact Resistance:** 7 day cure  
**Method:** based on ASTM D2794  
**Result:** 36 inch per lb. minimum

**Hardness**  
**Method:** ASTM D3363  
**Result:** >6H

**Flexibility:** 14 day cure  
**Method:** ASTM D522 1<sup>1/2</sup> inch mandrel  
**Result:** Pass

**Chemical Resistance Rating:** 7 day ambient cure  
B67W00201/B67V00200

(1 hour direct exposure to dry film incidental contact)

25% Sodium Hydroxide-Pass  
10% Hydrochloric Acid-Pass  
Motor Oil-Pass  
Ammonia-Pass  
20% Sodium Hydroxide  
Vegetable Oil-Pass-Pass  
IPA-Pass  
Methanol-Pass  
Mineral Spirits-Pass

## SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label of all components.

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 and splatters immediately with compliant reducer. Clean tools immediately after use. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

HOTW	07/15/2021	B67W201/B67V200	25 221
HOTW	07/15/2021	B67W213/B67V200	16 230
HOTW	07/15/2021	B67T204/B67V200	20 226