AIKEN COUNTY PUBLIC SCHOOLS

INVITATION FOR BID

PROJECT MANUAL

FOR

2024 Painting of Chukker Creek Elementary

BID DATE: March 20, 2024

Bid Number: 32024

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SCHEDULE OF PROGRESS

March 6, 2024	10:30 a.m. **Pre-bid Conference** at **Chukker Creek Elementary School, 1830 Chukker Creek Road SC 29803**
March 20, 2024	2:00 p.m. **Bids received** at Aiken County Public Schools Operation Center, Facilities Construction Dept., at **61 Given Street, Aiken, South Carolina 29805.**
March 27, 2024	Awarding of contract.
TBD	All work installed in place and complete.

INVITATION TO BID

The School District of Aiken County will accept bids for the **"2024 Painting of Chukker Creek Elementary School" Sealed bids will be received by the Owner until 2:00 p.m. on March 20, 2024, at the Facilities Construction Department of the Aiken County Public Schools Operations Center Attn: Facilities Construction Dept., at 61 Given Street, (2nd Floor) Aiken, South Carolina 29805,** at which time and place all bids will be publicly opened and read aloud. **Performance and Labor/Materials (Payment) Bonds along with notarized Power of Attorney will be required.**

The non-mandatory pre-bid meeting will be held on March 6, 2024, at 10:30 a.m. at 1830 Chukker Creek Road, Aiken, SC 29803. The project manual and all addendums can be found on the web at www.acpsd.net , click Departments > Facilities Construction. All Contractor's will be required to inspect the school by contacting the school by email susanh@acpsd.net for a predetermined appointment after the pre bid meeting. Sign in sheets will be available at the front office.

If any questions please contact each of us by **email jjones2@acpsd.net, bclark@acpsd.net and kchipman@acpsd.net or call 803 642-0436.**

A Bid Bond or Certified Check for five percent (5%) of the base bid will be required. A valid Certificate of Insurance must also be submitted with the bid. The Owner reserves the right to reject any and/or all bids and to waive all technicalities and formalities. No bid may be withdrawn for a period of sixty (60) days after opening. The Contractor bidding the project is responsible for receiving addendums prior to the bid.

Bid Number: 32024

INSTRUCTIONS TO BIDDERS

1.0 DEFINITIONS

1.1 BIDDING DOCUMENTS include:

- Invitation for Bid
- Instructions to Bidder's
- Bid Proposal Form and Procurement Form
- Proposed Contract Documents including any drawings and any addendum issued prior to the receipt of bids
- **Bid Bond and notarized Power of Attorney or Certified Check of 5% of bid.**
- Letters of References for similar sized projects

1.2 CONTRACT DOCUMENTS include:

- Project Manual
- Owner/Contractor Contract Agreement
- **Contractor's Performance and Labor and Material Payment Bonds (N/A)**
- Conditions of the Contract (General, Supplementary and other Conditions)
- Drawings & **EPA Certifications**
- All addendum issued prior to all modifications issued before execution of the contract.

1.3 UNIT BASE BID is the sum stated in the bid for which the Bidder offers to do the work described in the bidding documents as the **BASE**, to which work may be added or from which work may be deleted for sums stated in Alternate Bids.

2.0 BIDDER'S REPRESENTATION

2.1 Each Bidder by making his/her bid represents that:

A. The Bidder has read and understands the bidding documents and his/her bid is made in accordance therewith.

B. In receiving bids, it will be assumed that each Bidder has made a thorough inspection of all the existing conditions and is familiar with all conditions affecting the extent of cost of his/her work.

C. Claims for extra payment as a result of failure to examine conditions at the site prior to submitting his/her bid will be rejected.

3.0 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

3.1 The Bidder's shall promptly **notify Kevin Chipman, Director of Facilities Construction and Beth Clark at (803) 642-0436, Jeremiah Jones at (803) 645-9084 or Fax (803) 642-0466** of any ambiguity, inconsistency, or error, which may be discovered upon examination of the bidding documents, or site conditions.

3.2 Any interpretation, correction, or change of the bidding documents will be made by an addendum. Interpretations, corrections, or changes of the bidding documents made in any other manner will not be binding, and the Bidder's shall not rely upon such interpretations, corrections, or changes.

3.3 **BIDS WILL BE AWARDED** on base bid (item) or in total basis. Each base bid (item) must be priced as total of the item. If the item price does not include all items, then a total price and an individual item price must be furnished.

4.0 BIDDING PROCEDURE

4.1 Failure to submit a bid in the form requested or inclusion of any alternates, conditions, limitations, or provisions not called for will render the bid irregular, and can be considered cause for rejection of the bid.

4.2 Any written insertions, alterations, or erasures of the bid must be initialed by the Signer of the bid. The bid proposal is to be either typewritten or made out in ink.

4.3 Bids are to be addressed as indicated on Form of Proposal and are to be enclosed and sealed in the envelope with the following information:

1. **Title of the Project**
2. **Bidder's Name**
3. **South Carolina Specialty License Number**
4. **Address**
5. **Identified with the words "2024 Painting of Chukker Creek Elementary School"**

4.4 The Bidders are cautioned that it is the responsibility of each individual Bidder to ensure that his/her bid is in the possession of the responsible official or his/her designated alternate prior to the stated time and at the place of bid opening. The Owner is not responsible for bids delayed by mail and/or delivery services of any kind. No bids transmitted by facsimile will be accepted. Bids, amendments thereto, or withdrawal requests received after the time advertised for bid opening will not be accepted.

4.5 No bid may be modified, withdrawn, or canceled by the Bidder for a period of sixty (60) days after bid opening.

4.6 Each bid shall be accompanied by a Bid Security Bond or Certified Check in the amount of not less than five percent (5%) of the total Base Bid, pledging that the Bidder will enter

into a contract with the Owner on the terms stated in the bid. If a bid bond is submitted, it must be accompanied by a notarized Power of Attorney.

5.0 CONSIDERATION OF BIDS

5.1 REJECTION OF BIDS

The Owner shall have the right to reject any or all bids, including any not accompanied by any required Bid Security insurance documents or by other data required by the bidding documents.

5.2 ACCEPTANCE OF BID (AWARD)

A. Award of Bid:

It is the intent of the Owner to award a contract to the lowest responsive are responsible Bidder provided the bid has been submitted in accordance with the requirements of the bidding documents and does not exceed the funds available. The Owner shall have the right to waive any informality or irregularity in any bid or bids received and to accept or reject the bid or bids, which in his/her judgment is in the best interest of Aiken County Public Schools.

B. Date for commencement and substantial completion:

The Contractor hereby agrees to deliver to the Owner two (2) executed copies of the "Contract Agreement" within seven (7) days from the date set forth in the Notice of Award. Notice to Proceed will **NOT** be issued to the Contractor until receipt of:

1. Executed "Contract Agreement"

2. Performance and Labor and Materials Payment Bond with Power of Attorney

3. Certificate of Insurance

4. Construction Progress Schedule

C. Qualifications – **Bidder's must comply with the following:**

1. Comply with all requirements of Local, State, and Federal laws.

2. Have a valid and current South Carolina Specialty License for painting, commensurate with the requirements of the South Carolina State Licensing Board.

3. The Bidder's must be experienced (5 yrs.) in painting of this type of work indicated herein, under same company name being bid. The Subcontractors must also have been doing business performing typical sized projects in the last (5 yrs.) under the same company name being bid. If the Owner feels the Bidder (or his/her subs) are not experienced and qualified, his/her bid may be rejected.

4. EPA Certification (Lead-Based Paint) Site Foreman & Firm

5. Local permits may be required in different municipalities in Aiken County, South Carolina.

5.3 CONTRACT RENEWAL

The contract agreement will be for a period of one (1) year. The Owner may exercise the option of renewal for up to four (4) additional years provided that notice to renew, which must be given thirty (30) days before expiration, is mutually agreeable. A request for price adjustment will be evaluated at the time of renewal based on no greater than the adjusted percent change from the previous year shown in table six of the most current U.S. Department of Labor, Bureau of Labor Statistics price indexes.

5.4 WITHDRAWAL OF BIDS

Bids may be withdrawn on written or telegraphed requests received from the Bidder's prior to the time fixed for the bid opening.

5.5 CONTRACTOR/SPECIALTY LICENSE

Each Bidder is required to have a South Carolina Specialty Painting License before the bid opening date. This information will be displayed on the outside of the proposal envelope.

5.6 IN CASE OF TIE BIDS, the award will be determined according to the School District Procurement Code Section (v) (b) (2) (i).

6.0 INSURANCE

6.1 CONTRACTOR'S LIABILITY INSURANCE

A. The Contractor shall purchase and maintain with a company or companies, acceptable to the Owner, such insurance as will protect him/her from claims set forth below which may arise out of, or result from, the Contractor's operations under the Contract, whether such operations are by him/her, by any Subcontractor, or by anyone for whose acts any of them may be liable.

1. Claims under worker's or workmen's compensation, disability benefit, and other similar employee benefit acts;

2. Claims for damages because of bodily injury, occupational sickness or disease or death of his/her employees;

3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than his/her employees;

4. Claims for damages insured by usual personal injury liability coverage, which are sustained;

   (1) By any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor; or

(2) By any other person;

5. Claims for damages other than to the work itself because of injury to or destruction of tangible property, including loss of use resulting therefrom; and

6. Claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

B. The insurance required by paragraph "A" shall be written for not less than any limits of liability specified in the contract documents, or required by law, whichever is greater.

C. Minimum limits of liability for the following types of insurance are required (B.I. = Bodily Injury; P.D. = Property Damage; limits are shown in thousands of dollars):

1. Workman's Compensation, including:

   a. Workman's Compensation Insurance
   b. Employer's Liability

2. Comprehensive General Liability, including:

   a. Premises and Operations
      $500,000 B.I.: 100 P.D.
   b. Contractor's Protective Liability
      $500,000 B.I.: 100 P.D.
   c. Products Liability, including completed Operations Coverage
      $500,000 B.I.: 100 P.D.

3. Comprehensive Automobile Liability, including:
   a. All owned automobiles
      $250,000/$500,000 B.I.: 100 P.D.
   b. Non-owned automobiles
      $250,000/$500,000 B.I.: 100 P.D.
   c. Hired car coverage
      $250,000/$500,000 B.I.: 100 P.D.

D. In addition to Contractual Liability including indemnification provision, Bodily Injury and Property Damage coverage under both Comprehensive General and Comprehensive Automobile forms shall include "occurrence" basic wording, which means an event or continuous or repeated exposure to conditions, which unexpectedly causes injury or damage during policy period.

E. The Contractor shall either (a) require each of his/her Subcontractor's to procure and maintain during the life of his/her sub-contract Subcontractor's Comprehensive General Liability, Automobile Liability, and Property Damage Liability Insurance of the type and in the same amounts as specified in this sub-paragraph, or (b) insure the activities of his/her Subcontractor's in his/her own policy.

F. A copy of a valid Certificate of Insurance acceptable to the Owner shall be submitted with bid. The Certificate must have the signature of a responsible officer of the insurance company. The Certificate must have valid dates covering the time period that work is to be performed in. The insurance company must be rated no lower than "A" in A.M. Best. The Certificate shall contain a provision that coverage afforded under the policies will not be canceled until at least thirty (30) days prior written notice has been given to the Owner.

7.0 TIME/COMPLETION SCHEDULE

7.1 The Owner, in order to schedule project usage, must have definite schedule of completion time from the Contractor, therefore, the successful Contractor is expected to submit a construction schedule for approval that assures that the substantial completion time agreed upon and detailed below is met. The contract will not be awarded to the Contractor until this construction schedule has been received and approved by the Owner.

7.2 **THE TIME OF COMPLETION (SUBSTANTIALLY COMPLETE)** is hereby established and agreed to as to be 30 days.

7.3 Should the Contractor fail to complete the work within the specified time period, he/she agrees to pay and authorize the Owner to retain the sum of Two hundred and Fifty Dollars ($250.00) per calendar day that the work remains incomplete.

7.4 These sums are agreed upon as proper measure of liquidated damages which the Owner will sustain per calendar day by failure of the Contractor to complete the work by the time stipulated above. This sum is agreed to by both parties, and in no way construed as a penalty.

8.0 PROGRESS PAYMENTS

Based upon applications for payment submitted to the Owner by the Contractor, the Owner shall make progress payments up to ninety-six and half percent (96 ½ %) of the contract price, to the Contractor.

8.1 RETAINAGE

The Owner will retain three and half percent (3 ½ %) of the total contract price until the project is complete, all punch list items are complete, and the Owner accepts the project.

9.0 PROJECT CLOSEOUT

9.1 RELATED DOCUMENTS

All drawings, specifications, and general provisions of Contract, including General and Supplementary Conditions. AIA Documents: A107 Instructions to Bidders, AIA Document A133-2009 Contract, AIA G702 Pay App, AIA G706A-1994 Release of Liens, AIA G707 Final Payment, and AIA G706-1994 Payment of Debts and Claims.

9.2 DESCRIPTION OF REQUIREMENTS

A. Definitions:

Closeout is hereby defined to include general requirements near end of Contract

Time, in preparation for final acceptance, final payment, and normal termination of contract, occupancy by the Owner and similar actions evidencing completion of the work.

B. All closeout documents required by the Contractor are noted on the attached checklist (SEE BELOW).

AIKEN COUNTY SCHOOL DISTRICT PROJECT CHECKLIST

It is the responsibility of the Architect/Engineer and Contractor to provide the Owner with the documentation on this list. The Owner will not release final payment to either party until receipt of documents.

SCHOOL(S): **"2024 Painting of Chukker Creek Elementary School"**
ENGINEER: N/A

DOCUMENTATION	RESPONSIBILITY OF:	REC'D	COMMENTS
AFFIDAVIT OF ADVERTISEMENT WITH CLIPPING (S.C. NEWSPAPERS & BUSINESS OPPORTUNITIES)	Owner		
BID PROPOSAL FORM, INCLUDING, AS REQUIRED:	Owner		
LIST OF SUBCONTRACTORS	Owner		
BIDDER'S LICENSE #	Owner		
CONTRACTORS/SPECIALTY LICENSE #	Owner		
ASBESTOS ABATEMENT LICENSE #	Owner		
DRUG-FREE WORKPLACE STATEMENT	Owner		
CERTIFICATE OF INSURANCE (Workman's Compensation and General Liability)	**Contractor**		**Required after award**
BID BOND OR BID SECURITY (5%) POWER OF ATTORNEY FOR BID BOND	Contractor		
BID TABULATION SHEET	Owner		
16 DAY INTENT-TO-AWARD NOTICE TO ALL BIDDERS (FOR PROJECTS OVER $50,000)	Owner		
BOARD MINUTES OF BID APPROVAL AND AWARD	Owner		
PERFORMANCE BOND	**Contractor**		**N/A**
LABOR AND MATERIALS PAYMENT BOND	**Contractor**		**N/A**
GENERAL POWER OF ATTORNEY FOR BONDS	Contractor		
NOTICE OF AWARD/NOTICE TO PROCEED	Owner		
SIGNED CONTRACT	Owner		

PURCHASE ORDERS	Owner		
AIKEN COUNTY SCHOOL DISTRICT PROJECT CHECKLIST (CONTINUED) DOCUMENTATION	RESPONSIBILITY OF:	REC'D	COMMENTS
BUILDER'S RISK POLICY	Owner		
CERTIFICATE OF SUBSTANTIAL COMPLETION	Contractor		
AGENCY INSPECTIONS (I.E., DHEC, FACILITIES MGT., ETC.)	Owner		
"NO ASBESTOS" CERTIFICATION	Contractor		
FINAL INSPECTION & PUNCHLIST	Owner		
ROOF WARRANTIES	Contractor		
GENERAL CONTRACTOR'S WORKMANSHIP & MATERIAL WARRANTY	Contractor		
SUBCONTRACTOR'S WORKMANSHIP & MATERIAL WARRANTY	Contractor		
OTHER WARRANTIES	Contractor		
O & M MANUALS	Contractor		
O & M TRAINING STATEMENT	Contractor		
LIST OF SUBCONTRACTORS BY SPECIALTY, INCLUDING ADDRESSES AND TELEPHONE NUMBERS	Contractor		
SEPARATE RELEASE OR WAIVERS OF LIENS FROM SUBCONTRACTORS AND SUPPLIERS	Contractor		
CONSENT OF SURETY TO FINAL PAYMENT (AIA FORM G707)	**Contractor**		
CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS & CLAIMS (AIA FORM G706)	**Contractor**		
CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS (AIA FORM G706A)	**Contractor**		
CONTRACTOR'S RELEASE OR WAIVER OF LIENS CONDITIONAL UPON RECEIPT OF FINAL PAYMENT (ON CONTRACTOR'S LETTERHEAD)	**Contractor**		
CHANGE ORDERS	**Contractor**		
AS-BUILT DRAWINGS PERMANENT INSURANCE POLICY	Owner		

9.3 PREREQUISITES TO SUBSTANTIAL COMPLETION

A. General:

Prior to requesting the Owner's inspection for certification of substantial completion for the entire work, the Contractor must complete the following and list known exceptions in this request:

1. Progress payment request coincident with the first following date claimed, showing either 100% completion for portion of work claimed as "substantially complete" or list incomplete items, value of incompletion, and reasons for being incomplete.

2. Include supporting documents necessary for completion as indicated in these contract documents.

3. Advise the Owner of pending insurance change-over requirements.

4. Submit specific warranties, workmanship/maintenance bonds, maintenance agreements, final certifications, and similar documents. The Contractor shall provide the Owner with a product warranty guarantee. This shall guarantee that work and materials will be free from defects for one (1) year from date of substantial completion of project, and that this guarantee covers both materials and workmanship, and that any defect will be repaired or replaced promptly without further costs to the Owner. Final payment of three and half percent (3 ½ %) retainage will not be released by the Owner until receipt of these documents, and all other required close-out documents, including receipt of final lien waivers from manufacturers and Subcontractor's.

5. Where appropriate, the Contractor is to furnish the Material Safety Data Sheet" (OSHA-20) for any material as required by OSHA standards.

6. Submit maintenance manuals and any other related information.

7. Complete final clean-up requirements.

8. Touch-up and otherwise repair and restore marred exposed finishes.

B. Inspection Procedures:

Upon receipt of the Contractor's request, the Owner will either proceed with inspection or advise the Contractor of prerequisites that are not fulfilled. Following initial inspection, the Owner will advise either the Contractor that work is substantially complete and accepted, or advise Contractor of work, which must be performed prior to final acceptance. Results of completed inspection will form initial "punch list" for final acceptance.

9.4 PREREQUISITES FOR FINAL ACCEPTANCE & FINAL PAYMENT

A. General:

Prior to requesting the Owner's final inspection for certification of final acceptance and final payment, as required by General Conditions, complete the following and list known exceptions in request:

1. Submit final payment request with final releases and supporting documentation not previously submitted and accepted.

2. Submit final lien waivers from manufacturers and Subcontractor's.

3. Submit updated final request for payment, accounting for additional (final) changes to Contract Sum that have previously been approved.

4. Submit copy of the Owner's final punch list of itemized work corrected, stating that each item has been completed or otherwise resolved for acceptance by the Owner. Punch list items shall be completed within ten (10) calendar days.

B. Re-inspection Procedures:

1. Upon receipt of the Contractor's notice that work has been completed, including the completion of punch list items resulting from earlier inspection, and accepting incomplete items delayed because of acceptable circumstances, the Owner will re-inspect work. Upon completion of re-inspection, the Owner will advise the Contractor of work not completed or obligation not fulfilled as required for final acceptance. If necessary, procedure will be repeated.

2. The Owner will make one (1) visit to the site for final inspection of the work to prepare punch list of discrepancies. A second visit will be made to the site to review the punch list after being notified, in writing, by the Contractor that 100% of the punch list items have completed. If there are remaining items on the punch list that are incomplete because of circumstances beyond his/her control, the Contractor shall itemize these in detail.

C. **The School District of Aiken County will pay approved invoices and request for payment within thirty-one (31) days after satisfactory completion and acceptance of the project.** Only after this time will late payment charges assessed by the Contractor be honored.

10.0 DESCRIPTION OF WORK

A. Scope of work shall include prep, priming, and painting of the following school as specified:

"2024 Painting of Chukker Creek Elementary School"

B. The Contractor will furnish at the job site all labor, material (including all applicable taxes), tools, equipment, supervision, Workman's Compensation, Property Damage, and Liability Insurance necessary to complete all work. Site supervisor must have a clear understanding of both the spoken and written English language.

C. The Contractor will coordinate all work and pre-bid inspections with the school Principal to ensure that it does not interfere with, or interrupt, the instructional program. **During Spring Break working hours will be (Monday-Sunday) 7:00 a.m. to 7:00 p.m. and Summer working hours (Only Five Weeks) will be (Monday-Thursday) 7:00 a.m. to 7:00 p.m.**

D. Existing Conditions:

It shall be the responsibility of the Contractor to familiarize himself/herself with all existing conditions at the site which affects his/her work or which would be affected by his/her work. Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner insofar as practicable.

E. Drawings and notes showing comments are attached for information only, actual conditions may vary and it is the Contractor's responsibility to inspect all areas and note problems prior to bid. All previously, painted surfaces will be painted; metal surfaces with manufacturer baked on finish may not be painted unless noted in Division 1 or called out on the drawings.

F. Provide unit prices for Typical Mobile classrooms, Six Points Auditorium, 400 SF classroom typical at Six Points Learning Center, 800 SF classroom at other schools, and hourly rates for personnel, supervisor, painter, laborer.

11.0 SUBMITTALS

A. Schedule of Work:

Upon receipt of contract with the Owner, the Contractor shall establish and submit a schedule prior to award and assume responsibility for all items of installation until such work is completed and accepted.

12.0 ENVIRONMENTAL CONTROLS

A. General:

Perform construction in such manner as to eliminate hazards to persons and property; and to minimize interference with use of adjacent areas, utilities, and structures of interruption of use of such facilities; and free passage to and from such adjacent areas of structures.

B. OSHA Standards:

Where appropriate the successful vendor must furnish with each order the Material Safety Data Sheet (OSHA-20) for any material as required by OSHA standards.

C. EPA Requirements:

The Contractor and a Foreman on site must be certified by the EPA requirements for the handling of lead-based paint and the disturbance of lead base paint.

13.0 PRODUCT DELIVERY, STORAGE AND HANDLING

In manner to prevent, damage before, during, and after installation, until acceptance by the Owner. The Owner will not accept deliveries of materials that is the Contractor's responsibility.

14.0 QUALITY ASSURANCE

A. Installation shall be in accordance with the latest applicable codes and requirements, and in accordance with manufacturer's installation instructions.

B. All materials shall be new and as specified and shall not be submitted unless approved by the Owner.

15.0 CLEAN-UP

The Contractor is responsible for removing all debris from the school on a daily basis. The Contractor shall not use school dumpsters and janitor sinks. **(The Contractor will provide his/her own dumpster)**. The Contractor is responsible for thoroughly cleaning construction areas. Any damage to surrounding or adjacent equipment, furniture, or building will be repaired by the Contractor to the satisfaction of the Owner. All splatters, overspray, or spills will be removed from equipment, glass windows, desk, bricks, sidewalks, walls, floors, light fixtures, outlets, sinks, and restored to their original condition prior to the commencement of the project. School custodians are not responsible for clean up behind the Contractor's work.

16.0 ALLOWANCE:

A. Provide $5000.00 allowance for the items listed in this specification. Allowances shall be included in the total bid.

B. The Contractor's mark up, overhead, profit and all other costs for the allowances shall be included in the lump sum base bid. No processing fees, office supplies, handling fees, or other fees or cost is permitted.

C. Allowance amounts are only for components and scope of work not identified on the plans or not specifically listed as an allowance. Any unused allowance at completion will be returned to owner.

DIVISION 1 - GENERAL REQUIREMENTS
Section 01010 - General Summary

1.1 DESCRIPTION OF PROJECTS: The projects of this Agreement include painting of the following school:

Chukker Creek Elementary School

Paint interior, exterior walls, door frames, windows and trim.

1. **The interior cleaning of all walls or surfaces to be painted with TSP. (Test existing surface to determine if existing surface is oil or latex.)**

2. **Prep all walls to be painted to include caulking, glazing, sanding, scraping of any loose paint and runs, cleaning, sealing, patching or repairing of holes, cracks, joints, and control joints at all CMU and drywall walls, windows, doors, frames, ceilings, lockers, ductwork, handrails, canopies, etc. Remove all tape, glue, wax adhesive, rust, spider webs, dirt, nails, screws anchors, etc. from all areas to be painted.**

3. **All CMU and drywall walls sand and/abrade and spot prime areas where finish coat has peeled. Prior to first coat of primer or finish coats, substrates must be dry and free of all dusts, adhesives, tape, and soapy residue. Inspect areas ready for first coat with owner.**

First coat of paint: (Normally Bonding Primer)

4. **If testing reveals existing paint is Pre Catalyzed Water Based-Semi Gloss Epoxy paint then Primer is not necessary and (2) coats of Pre Cat WB Semi-Gloss Epoxy Top Coats will apply.**

5. **First coat of paint at Chukker Creek Elementary interior walls after scraping and cleaning walls with TSP.**

6. **If applicable all interior and exterior painted metal or wood trim, duct, doors, handrails, windows, etc. after cleaning, sanding, wiping surfaces shall receive 1 coat Procryl primer SW B66W01310 and 2 coats of water-based Alkyd Urethane SW B 53W0151.**

7. **All previously painted ceilings, after cleaning, wiping down, shall receive 2 coats of Waterbourne Acrylic dry fall flat White Paint, SW B42W00001.**

(Trim) Windows/Doors

8. **1 coat of Primer: B66WO1310-PI Procryl PR of W**

9. **(2) coats of PI WB ALK UR SG EW Water based Alkyd Urethane Enamel, Semi-Gloss**

1.2 OWNER:
Aiken County Public Schools, Facilities Construction, 61 Given Street, Aiken, SC 29805

1.4 SUBMITTALS:

A. **Please provide (4) copies of a color samples book identifying the colors selected by the Owner; to include walls, soffits, doors, handrail, and all interior/exterior paint, for review and approval.**

B. The Contractor must submit testing lab report of material and surface compatibility prior to initiating work.

1.5 PROJECT RECORD DOCUMENTS

A. Paint Records:

1. The Contractor to keep complete and easily read documents showing exactly which areas receive what kind(s) of paint. Documents are also to indicate manufacturer's color(s) used in that area.

2. The Contractor must keep these records on a schematic floor plan similar to the plan used in these Construction Documents, marking all of the above information.

3. Submit records and mark-up drawings prior to start of the project to the Owner for review and approval.

4. Submittals must indicate type of paint including any undercoating or primer, manufacturer, manufacturer's catalogs showing recommended surface preparation, application recommendations, and color names or actual chips.

1.6 PROTECTION:

A. The Contractor shall provide and maintain suitable and adequate protection for all systems and equipment. All areas, equipment, flooring and furniture shall be covered, and protected from spills, splatter, and overspray during the duration of the contract. When the need for protection procedures no longer exists, the Contractor shall remove such protective devices and or procedures.

B. Any property destroyed or damaged due to Contractor's neglect or failure to protect, will be replaced or compensated at the Contractor's expense.

1.7 PRE-CONSTRUCTION CONFERENCE

Before any painting begins, a pre-construction conference shall be held with personnel representing the Owner, the Contractor, and his/her major Subcontractor's. These representatives shall be prepared to adjust and consolidate the several organizations and procedures into one coordinated task force. At this conference, the Contractor shall present his/her plan of sequence for working at each school. The project foreman or supervisor should be present at this meeting.

1.8 SCHEDULE OF VALUES

Prepare schedule of values as required by General Conditions, in coordination with the preparation of progress schedule, correlate line items with other administrative schedules and forms required for the work, including progress schedule, payment request form, listing of Subcontractor's, schedule of allowances, schedule of alternated, listing of products and principal suppliers and fabricators, and schedule of submittals. Provide breakdown of contract sum in sufficient detail to facilitate continued elevation of payment requests and progress reports. Breakdown principal subcontract amounts into several line items. Round off to the nearest whole dollar, but with total equal to contract sum. Submit three (3) copies of schedule of values to the Owner. (Note: First application for payment will not be approved until bar chart schedule; and (add section 1.06 D4 submittals indicating type of paint including and undercoating or primer, manufacturer, manufacturer's catalogs showing recommendations, and color names or actual chips) and an approved schedule of values; has been received by the Owner.

TECHNICAL SPECIFICATIONS
SECTION 09900-PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 1 Specifications sections, apply to this section.

1.2 SUMMARY:

This section includes surface preparation, painting and finishing of exposed interior/exterior items and surfaces.

A. Surface preparation priming and finish coats specified in this section are in addition to shop priming and surface treatment specified under other sections.

A. Paint exposed surfaces whether or not colors are designated in "schedules", except where a surface or material is specifically indicated not to be painted or is to remain natural. Where an item or surface is not specifically mentioned, paint the same as similar adjacent materials as surfaces. If color or finish is not designated, the Owner will select from standard colors or finishes available.

B. All surfaces are to receive one (1) coat of bonding primer and one (1) finish coat of Pre-Catalyzed Water based Semi-Gloss Epoxy Extra paint sufficiently to cover all paint surfaces unless otherwise listed. Sheetrock will receive one (1) primer coat and one (1) finish coat of eggshell latex paint (check with Facilities Construction at Aiken County)

1.3 QUALITY ASSURANCE:

A. Unless specifically approved by the Owner, all materials (both primers, undercoat paint and furnish coats) are to be furnished by one (1) single source manufacturer and all shall have labels attached and legible.

1. Workmanship is to be done by a painting contracting firm with a minimum five (5) years' experience. Subcontractor's may be required to submit qualifications showing experience level, level of crews and show a list of at least ten (10) projects of similar painting requirements.

2. Coordination of work: Review other sections

PART 2 - PRODUCTS

2.1 MANUFACTURER'S

Subject to compliance with requirements, provide products of one (1) of the following:

Sherwin Williams Company (S-W)

2.2 MATERIALS

Shall be equivalent to the following:

- CMU WALLS: Pro Industrial Pre-Catalyzed Water Based Semi-Gloss Epoxy Extra-K46W00151
- CMU PRIMER: EX BOND PRM WH-B51W00150
- EXTERIOR STUCCO: LX11W0051 - LXN XP EW
- INTERIOR WALLS: Pro Industrial Pre-Catalyzed Water Based Semi-Gloss Epoxy Extra-K46W00151
- CEILING (WHITE): Waterborne Acrylic Dry Fall Flat
- WOOD DOORS: Wood Classics Polyurethane Varnish High Gloss Clear-A67V00001
- FLOOR CONCRETE: ArmorSeal 1000HS Epoxy (Part A & B) Extra White/Tint Base-B67W02001
- METAL DOOR, TRIM, WINDOWS ETC:
  PRIMER: B66W01310 - PI PROCRYL PR OF W
- METAL DOOR,TRIM,WINDOWS ETC;
  PAINTED EXTERIOR: B53W02151 - PI WB ALK UR SG EW
  INTERIOR: B53T01054 - PI WB ALK UR SG UD

PART 3 - EXECUTION:

3.1 EXAMINATION

Examine substrates and conditions under which work will be performed for compliance with requirements for application of paint. Do not begin paint application until unsatisfactory conditions have been corrected. Start of painting will be constituted as the applicator's acceptance of surfaces and conditions within a particular area.

3.2 PREPARATION:

A. General Procedures:

Remove hardware and accessories, outlet/switch plates, machines surfaces, lighting fixtures, and similar items in place that are not to be painted to complete painting of the items and adjacent surfaces. Following completion of painting operations in each space or area, have it reinstalled by workers skilled in the trades involved. The Contractor will replace missing items.

1. Clean surfaces before applying paint or surface treatments.

2. Remove oil, dust, dirt, and grease prior to cleaning. Schedule cleaning and

painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

B. Surface Preparation:

Clean and prepare surfaces to be painted in accordance with the manufacturer's instructions for each particular substrate conditions and as specified. Great Lakes No Rinse Cleaner will be used to clean all interior walls.

3.3 APPLICATION:

A. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substate and type of material being applied. Do not paint over tape, gum, glue , hot glue, tacks, staples, adhesive residue, wax, dirt, rust, scale, rotten wood, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
B. Provide finish coats that are compatible with primers used:

The number of coats and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. Sand between applications where sanding is required to produce an even smooth surface in accordance with the manufacturer's directions.

INTERIOR/EXTERIOR PAINT SCHEDULE

Specifications for interior/exterior paint systems are indicated below and are written assuming substrates to be bare with no or very little paint surfaces remaining. If, however, previously painted surfaces are in sound condition and of uniform thickness and porosity and all loose and peeling areas are eliminated, no primers will be required. The Contractor will provide a credit to the Owner for labor and material for not installing the primer coat.

If in the opinion of the Owner, the surfaces are not prepared properly, or if the thickness and porosity of any previously painted surfaces are not acceptable, he/she shall have the right to require additional cleaning and preparation and/or priming prior to final painting, at no additional costs to the Owner.

The Contractor and paint manufacturer in conjunction **SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE OF PAINT AND SUBSTRATE ON ANY PREVIOUSLY PAINTED SURFACES AND SHALL SELECT FROM THE FOLLOWING SPECIFIED PRODUCTS AND CONFIRM WITH THE OWNER PRIOR TO APPLICATION OF PAINT SYSTEMS.**

TECHNICAL SPECIFICATIONS
SECTION 09901-PROJECTS

1.1 GENERAL

This section includes the general extent of painting required for each portion of the project and includes some general comments, descriptions, and outlines of special

1.2 GENERAL COMMENTS RELATIVE TO ALL PROJECTS:

A. In general, and unless specifically noted otherwise, and all previously painted wall surfaces are to be repainted, including any previously unpainted surfaces that may be specifically noted below.

B. The Contractor is to examine site and note areas to be painted and determine extent of cleaning and preparation of surfaces, type of paint previously used, and select proper compatible paint systems for re-painting. He/she will be responsible for moving all loose furniture and equipment during the work phase. The Contractor is responsible for all equipment that comes up missing or damaged.

C. The Contractor is to examine existing surfaces and materials for damages, rotting or rusting conditions, etc., and to report all such conditions to the Owner prior to applying paint. Any rotten wood or badly deteriorated materials are not to be painted over until repairs are made, or approval is gotten from the Facilities Construction Department to proceed. Any painting applied over this type material is subject to disapproval, and therefore not eligible for compensation. Repainting after corrections are made over such materials will be the responsibility of the Contractor.

NOTE: The Contractor is to submit, along with his/her written report of rotten or badly deteriorated conditions, a Change Order request for repairing or replacing the materials, giving specific and exact descriptions of the areas in question, and an itemized breakdown of the costs making these repairs, along with a complete detail or description of exactly what is proposed to make the corrections.

D. Any walls with special lettering, signs, colors, or safety identifying design colors, or directional painted on signs, or fire safety markings are to be repainted with identical markings as originally painted on these surfaces.

E. Doors and frames, wood and metal windows are to be caulked and painted interior and exterior surfaces.

F. The Owner will provide the Contractor with color schemes as selected by each school. The Contractor should consider color of each existing versus new in determining the number of coats required. All accent walls not being repainted the same color may require a primer coat, prior to final coats. The primer coat is no additional cost to the Owner.

G. The general intent of painting is shown on the project title of pages 18-23.

H. Exterior canopies and conduit where existing paint is peeling, remove loose paint, clean, prime, and paint.

I. All exposed insulated piping whether previously painted or not shall be cleaned of dust and dirt then painted. Stainless jacketing is **NOT** to be painted.

J. Notify the Principal at each school to determine which murals will be saved before any cleaning or painting starts. Provided the Facilities Construction Department with a signed copy by the Principal of murals that will be saved.

K. All previously painted surfaces are to be painted.

L. All data lines, projection screens, security cameras, cords, light fixtures, Wi-Fi boxes, and electrical lines must be taped or covered for protection from overspray.

1.3 Sherwin-Williams Specs

SHERWIN-WILLIAMS.

Product Submittal

Chukker Creek

AIKEN SCHOOL DISTRICT

Presented By:
Chad Widener
SALES- Sales Representative PC Multi-Segment

+1 (803)335-6878
Chad.S.Widener@sherwin.com

SHERWIN-WILLIAMS
576 SILVER BLUFF RD
AIKEN, SC 29803 6012
(803) 648-1176

February 12, 2024

SHERWIN-WILLIAMS.

Product Submittal

Project: Chukker Creek

Customer: AIKEN SCHOOL DISTRICT
1000 BROOKHAVEN DR, AIKEN

Dear AIKEN SCHOOL DISTRICT:

Thank you for considering Sherwin-Williams products for the Chukker Creek project. Included in this package is the Sherwin-Williams submittal for the above referenced project.

Color Schedule you provided is as following:
-Field Color: SW 6378 Crisp Linen
-Accent Color: SW 6388 Golden Fleece
-Trim SW 6300 Burgandy
-Trim SW 6516 Down Pour Door/Trim

Possible custom colors:
-Originally made in PM 200 Gloss order # OE 0332741Q802008
-Originally made in SuperPaint int s/g order # OE 0332741Q702008

Chad Widener
SALES- Sales Representative PC Multi- Segment

+1 (803)335-6878
Chad.S.Widener@sherwin.com

SHERWIN-WILLIAMS
576 SILVER BLUFF RD, AIKEN, SC 29803 6012

SHERWIN-WILLIAMS.

AIKEN SCHOOL DISTRICT
Chukker Creek
February 12, 2024

Interior Finishes

Drywall

Coat 2: K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White - Location: Walls - Secondary Location: Hallway

Coat 1: K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White - Location: Walls - Secondary Location: Hallway

Notes: Area clean, dry, and dull

Steel/Ferrous Metal

Coat 2: B53T01054 - PI WB ALK UR GL UD - Location: Interior/Exterior

Notes: Doors and Frames

Coat 1: B53T01054 - PI WB ALK UR GL UD

- Location: Interior/Exterior

Notes: Doors and Frames

Primer: B66W01310 - PI PROCRYL PR OF W -

Location: Interior/Exterior

Notes: Doors and Frames sand all areas prior to priming

Exterior Finishes

Steel/Ferrous Metal

Primer: B66W01310 - PI PROCRYL PR OF W

- Location: Breezeway

Notes: Prime where needed

Coat 1: B53W02151 - PI WB ALK UR SG EW

- Location: Breezeway

Notes: Sand any exposed area. Ensure all areas are clean, dry and dull.

Coat 2: B53W02151 - PI WB ALK UR SG EW

- Location: Breezeway

Notes: Sand any exposed area. Ensure all areas are clean, dry and dull.

Stucco

Coat 1: LX11W0051 - LXN XP EW

- Location: Exterior Stucco

Notes: Area clean, dry, and dull

Coat 2: LX11W0051 - LXN XP EW

- Location: Exterior Stucco

Notes: Area clean, dry, and dull

Galvanized Metal

Primer: B66W01310 - PI PROCRYL PR OF W

- Location: Exterior windows

Notes: Area clean, dry, and dull

Coat 1: B53W02151 - PI WB ALK UR SG EW

- Location: Exterior windows

Notes: Area clean, dry, and dull
Coat 2: B53W02151 - PI WB ALK UR SG EW
Location: Exterior windows
Notes: Area clean, dry, and dull

SHERWIN-WILLIAMS.

Basic Surface Preparation

Coating performance is directly affected by surface preparation. Coating integrity and service life will be reduced because of improperly prepared surfaces. As high as 80% of all coating failures can be directly attributed to inadequate surface preparation that affects coating adhesion. Proper product selection, surface preparation, and application affect coating performance. Coating integrity and service life will be reduced because of improperly prepared surfaces. Selection and implementation of proper surface preparation ensures coating adhesion to the substrate and prolongs the service life of the coating system.

The majority of paintable surfaces are concrete, ferrous metal, galvanizing, wood and aluminum. They all require protection to keep them from deteriorating in aggressive environments. Selection of the proper method for surface preparation depends on the substrate, the environment, the coating selected, and the expected service life of the coating system. Economics, surface contamination, and the effect on the substrate will also influence the selection of surface preparation methods. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Verify the existence of lead based paints on the project. Buildings constructed after 1978 are less likely to contain lead based paints. If lead based paints are suspected on the project, all removal must be done in accordance with the EPA Renovation, Repair and Painting and all applicable state and local regulations. State and local regulations may be more strict than those set under the federal regulations. Verify that Owner has completed a Hazardous Material Assessment Report for the project prior to issuing of Drawings. Concluding that no lead based paints were found on project site, delete paragraph regarding lead based paints.

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. Removal must be done in accordance with EPA Renovation, Repair and Painting Rule and all related state and local regulations. Care should be taken to follow all state and local regulations which may be more strict than those set under the federal RRP Rule.

No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless the products to be used are designed to be used in those environments.

Aluminum – **S-W 1:** Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.

Block (Cinder and Concrete) – **S-W 3:** Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement, and hardeners. Concrete and mortar must be cured at least 28 days at 75°F. The pH of the surface should be between 6 and 9. On tilt-up and poured-in-place concrete, commercial detergents and abrasive blasting may be necessary to prepare the surface. Fill bug holes, air pockets, and other voids with a cement patching compound (per ASTMD4261).

Brick – **S-W 4:** Must be free of dirt, loose and excess mortar, and foreign material. All brick should be allowed to weather for at least one year followed by wire brushing to remove efflorescence. Treat the bare brick with one coat of Loxon Conditioner.

Concrete and Masonry – Concrete, Poured – Exterior or Interior– **S-W 5:** The preparation of new concrete surfaces is as important as the surface preparation of steel. The following precautions will help assure maximum performance of the coating system and satisfactory coating adhesion:

1. **Cure** – Concrete must be cured prior to coating. Cured is generally defined as concrete poured and aged at a material temperature of at least 75°F for at least 28 days unless specified products are designed for earlier application.
2. **Moisture** – Reference ASTM F1869-98 Moisture Test by use of Calcium Chloride or ASTM D4263 Plastic Sheet Method Concrete must be free from moisture as much as possible (it seldom falls below 15%). Vapor pressures, temperature, humidity, differentials, and hydrostatic pressures can cause coatings to prematurely fail. The source of moisture, if present, must be located, and the cause corrected prior to coating.

3. **Temperature** – Air, surface and material temperatures must be in keeping with requirements for the selected product during and after coating application, until coating is cured.
4. **Contamination** – Remove all grease, dirt, paint, oil, laitance, efflorescence, loose mortar, and cement by the recommendations listed in the surface preparation section.

5. **Surface Condition** – Hollow areas, bug holes, voids, honeycombs, fin form marks, and all protrusions or rough edges are to be ground or stoned to provide a continuous surface of suitable texture for proper adhesion of the coating. Imperfections may require filling, as specified, with a recommended Sherwin-Williams product.

6. **Concrete Treatment** – Hardeners, sealers, form release agents, curing compounds, and other concrete treatments should be removed to ensure adequate coating adhesion and performance.

Methods of Surface Preparation on Concrete per SSPC-SP13/NACE 6 or ICRI 03732 Surface Cleaning Methods:
Vacuum cleaning, air blast cleaning, and water cleaning per ASTM D4258.
Used to remove dirt, loose material, and/or dust from concrete.
Detergent water cleaning and steam cleaning per ASTM D4258.
Used to remove oils and grease from concrete. Prior to abrasive cleaning, and after abrasive cleaning, surfaces should be cleaned by one of the methods described above.

Mechanical Surface Preparation Methods:
Dry abrasive blasting, wet abrasive blasting, vacuum assisted abrasive blasting, and centrifugal shot abrasive blasting per ASTM D4259. Used to remove contaminants, laitance, and weak concrete, to expose subsurface voids, and to produce a sound concrete surface with adequate profile and surface porosity.
High-pressure water cleaning or water jetting per SSPC-SP12-NACE5.
Used to remove contaminants, laitance, and weak concrete, to expose subsurface voids, and to produce a sound concrete surface with adequate profile and surface porosity.
Impact tool methods per ASTM D4259.
Used to remove existing coatings, laitance, and weak concrete. Methods include scarifying, planing, scabbling, and rotary peening. Impact tools may fracture concrete surfaces or cause microcracking requiring surface repair.
Power tool methods per ASTM D4259.
Used to remove existing coatings, laitance, weak concrete, and protrusions in concrete. Methods include circular grinding, sanding, and wire brushing. These methods may not produce the required surface profile to ensure adequate adhesion of subsequent coatings.

Chemical Surface Preparation Methods:
Acid etching per ASTM D4260. Use to remove some surface contaminants, laitance, and weak concrete, and to provide a surface profile on horizontal concrete surfaces. This method requires complete removal of all reaction products and pH testing to ensure neutralization of the acid. Not recommended for vertical surfaces. Etching with hydrochloric acid shall not be used where corrosion of metal in the concrete is likely to occur. Adequate ventilation and safety equipment required.

1. Clean surface per ASTM D4268
2. Wet surface with clean water
3. Etch with 10-15% muriatic acid solution at the rate of 1 gallon per 75 square feet
4. Scrub with stiff brush
5. Allow sufficient time for scrubbing and until bubbling stops
6. If no bubbling occurs, surface is contaminated. Refer to ASTM D4258 or ASTM D4259
7. Rinse surface two or three times. Remove acid/water each time.
8. Surface should a texture similar to medium grit sandpaper.
9. Neutralize surface with a 3% solution of tri-sodium phosphate and flush with clean water.
10. Allow to dry and check for excess moisture.

Cement Composition Siding/Panels – S-W 6: 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. Pressure clean, if needed, with a minimum of 2100 psi pressure to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, many times the pH may be 10 or higher.

Composition Board (Hardboard) – S-W 9: Some composition boards may exude a waxy material that must be removed with a solvent prior to coating. Whether factory primed or unprimed, exterior composition board siding (hardboard) must be cleaned thoroughly and primed with an alkyd primer.

Copper – S-W 7: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP2, Hand Tool Cleaning.

Drywall—Interior and Exterior – S-W 8: 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.

Galvanized Metal – S-W 10: Allow to weather a minimum of 6 months prior to coating. Clean per SSPC-SP1 using detergent and water or a degreasing cleaner, then prime as required. 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 area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Brush Blast per SSPC-SP16 is necessary to remove these treatments.

Plaster – S-W 11: Must be allowed to dry thoroughly for at least 30 days before painting. Room must be ventilated while drying; in cold, damp weather, rooms must be heated. Damaged areas must be repaired with an appropriate patching material. Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.

Steel/Ferrous Metal Substrates

SSPC-SP1- Solvent Cleaning: Solvent cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Solvent cleaning does not remove rust or mill scale. Change rags and cleaning solution frequently so that deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation. Follow manufacturer's safety recommendations when using solvents. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.1. (Refer to each products cleaning instructions. Many acrylic coatings will state; When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. **Do not use hydrocarbon solvents for cleaning.)**

SSPC-SP2 - Hand Tool Cleaning: Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Mil scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.2.

SSPC-SP3 - Power Tool Cleaning: Power Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Mil scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.3.

SSPC-SP5 / NACE 1 - White Metal Blast Cleaning: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP5/ NACE No.1.

SSPC-SP6 / NACE 3 - Commercial Blast Cleaning: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 33 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE No.3.

SSPC-SP7 / NACE 4 - Brush-Off Blast Cleaning: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint. Tightly adherent mill scale, rust, and paint may remain on the surface. Mil scale, rust, and coating are considered adherent if they cannot be removed by lifting with a dull putty knife. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP7/NACE No.4.

SSPC-SP10 / NACE 2 - Near-White Blast Cleaning: A Near White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPCSP10/ NACE No.2.

SSPC-SP11 - Power Tool Cleaning to Bare Metal: Metallic surfaces that are prepared according to this specification, when

viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxide corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portions of pits if the original surface is pitted. Prior to power tool surface preparation, remove visible deposits of oil or grease by any of the methods specified in SSPC -SP 1, Solvent Cleaning, or other agreed upon methods. For complete instructions, refer to Steel Structures Paint Council Surface Preparation Specification No.11.

SSPC-SP12 / NACE 5 - Surface Preparation and Cleaning of Metals by Water jetting Prior to Recoating: High- and Ultra -High Pressure Water Jetting for Steel and Other Hard Materials This standard provides requirements for the use of high- and ultra-high pressure water jetting to achieve various degrees of surface cleanliness. This standard is limited in scope to the use of water only, without the addition of solid particles in the stream. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP12/NACE No.5.

SSPC-SP13 / NACE 6 or ICRI 03732 - Surface Preparation of Concrete: This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coating or lining systems. The requirements of this standard are applicable to all types of cementitious surfaces including cast-in-place concrete floors and walls, precast slabs, masonry walls and shotcrete surfaces. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a dry, sound, uniform substrate suitable for the application of protective coating or lining systems. Depending upon the desired finish and system, a block filler may be required. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP13/NACE No.6 or ICRI 03732

SSPC-SP14 / NACE 8 – Industrial Blast Cleaning: This standard gives requirements for industrial blast cleaning of unpainted or painted steel surfaces by the use of abrasives. This joint standard allows defined quantities of mill scale and/or old coating to remain on the surface. An industrial blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dust, and dirt. Traces of tightly adherent mill scale, rust, and coating residue are permitted to remain on 10% of each unit area of the surface. The traces of mill scale, rust, and coating shall be considered tightly adherent if they cannot be lifted with a dull putty knife. Shadows, streaks, and discolorations caused by stains of rust, stains of mill scale, and stains of previously applied coating may be present on the remainder of the surface.

SSPC-SP16 Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals: This standard covers the requirements for brush-off blast cleaning of uncoated or coated metal surfaces other than carbon steel by the use of abrasives. These requirements include visual verification of the end condition of the surface and materials and procedures necessary to achieve and verify the end condition. A brush-off blast cleaned non-ferrous metal surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, metal oxides (corrosion products), and other foreign matter. Intact, tightly adherent coating is permitted to remain. A coating is considered tightly adherent if it cannot be removed by lifting with a dull putty knife.

High- and Ultra-High Pressure Water Jetting for Steel and Other Hard Materials:
SSPC-SP WJ-1/NACE WJ-1: Clean to Bare Substrate (WJ-1) is intended to be similar to the degree of surface cleanliness of SSPC-SP 5/NACE 1, except that stains are permitted to remain on the surface. This standard is used when the objec-tive is to remove every trace of rust and other corrosion products, coating and mill scale.
SSPC-SP WJ-2/NACE WJ-2: Very Thorough Cleaning (WJ-2) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objec-tive is to remove almost all rust and other corrosion products, coating, and mill scale. **SSPC-SP WJ-3/NACE WJ-3:** Thorough Cleaning (WJ-3) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to remove much of the rust and other corrosion products, coating, and mil scale, leaving tightly adherent thin films.
SSPC-SP WJ-4/NACE WJ-4: Light Cleaning (WJ-4) is intended to be similar to the degree of surface cleanli-ness of SSPCSP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to allow as much of the tightly adherent rust and other corro-sion products, coating, and mill scale to remain as possible, Discoloration of the surface may be present.

Water Blasting NACE Standard RP-01-72: Removal of oil grease dirt, loose rust, loose mill scale, and loose paint by water at pressures of 2,000 to 2,500 psi at a flow of 4 to 14 gallons per minute.

Stucco S-W 22 : Must be clean and free of any loose stucco. If recommended procedures for applying stucco are followed, and normal drying conditions prevail, the surface may be painted in 30 days. The pH of the surface should be between 6 and 9.

Wood—Exterior – S-W 23: Must be clean and dry. Prime and paint as soon as possible. Knots and pitch streaks must be scraped, sanded, and spot primed before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth. Caulk should be applied after priming.

Wood—Interior – S-W 24: All finishing lumber and flooring must be stored in dry, warm rooms to prevent absorption of moisture, shrinkage, and roughening of the wood. All surfaces must be sanded smooth, with the grain, never across it. Surface blemishes must be corrected and the area cleaned of dust before coating.

Vinyl Siding, Architectural Plastics, PVC & Fiberglass: – S-W 24: Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, prime with appropriate white primer. Do not paint vinyl with any color darker than the original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56 unless VinylSafe® Colors are used. If VinylSafe® Colors are not used and darker colors lower than an LRV of 56 are, the vinyl may warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

Previously Coated Surfaces – S-W 12: Maintenance painting will frequently not permit or require complete removal of all old coatings prior to repainting. However, all surface contamination such as oil, grease, loose paint, mill scale dirt, foreign matter, rust, mold, mildew, mortar, efflorescence, and sealers must be removed to assure sound bonding to the tightly adhering old paint. Glossy surfaces of old paint films must be clean and dull before repainting. Thorough washing with an abrasive cleanser will clean and dull in one operation, or, wash thoroughly and dull by sanding. Spot prime any bare areas with an appropriate primer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system. Check for compatibility by applying a test patch of the recommended coating system, covering at least 2 to 3 square feet. Allow to dry one week before testing adhesion per ASTM D3359. If the coating system is incompatible, complete removal is required per ASTM D4259.

Touch-Up, Maintenance and Repair

For a protective coating system to provide maximum long-term protection, regularly scheduled maintenance is required. Maintenance includes inspection of painted areas, cleaning of surfaces to remove oils, chemicals, and other contaminants, and touch-up of areas where the coatings have been damaged. Highly corrosive areas, such as those subjected to frequent chemical spillage, corrosive fumes, and/or high abrasion or temperature areas should be inspected frequently – every six months, for example. Areas exposed to less severe conditions, such as interiors and exteriors of potable water tanks, may be inspected annually to assess the condition of the coating system.

The SSPC-VIS 2, Standard Method for Evaluating Degree of Rusting on Painted Steel Surfaces, can be used as a guide to determine appropriate touch-up and repairs maintenance schedules. Touch-up would be suggested when the surface resembles Rust Grade 5-S (Spot Rusting), 6-G (General Rusting), or 6-P (Pinpoint Rusting). Surface preparation would generally consist of SSPC-SP2, SP3, SP11, or SP12. Overcoating a well protected, but aged steel surface showing no evidence of rusting, may be achieved by Low Pressure Water Cleaning per SSPC-SP12/WJ4, and applying an appropriate coating system.

Full removal of the existing coating system by abrasive blasting would be recommended when the surface resembles Rust Grade 3-S (Spot Rusting), 4-G (General Rusting), or 4-P (Pinpoint Rusting). When the coating system has deteriorated to encompass approximately 33% of the surface area, it is always more economical to consider full removal and reapplication of the appropriate protective coating 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.

PRO INDUSTRIAL™
PRE-CATALYZED WATERBASED 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 including mildew by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with an appropriate primer/sealer.

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. Primer recommended for best performance.

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPCSP1.

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-SP7 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 and 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. Apply one coat Loxon Conditioner, following label recommendations.

Drywall - Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Wood - Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

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

Refer to the SDS before use.
Temperature: 50°F minimum
120°F maximum
(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.

Airless Spray
Pressure ..... 1800 - 2700 psi
Hose ..... 1/4" ID
Tip ..... .015" - .021"
Filter ..... 60 mesh
Reduction ..... Not recommended

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

Roller ..... 1/4 - 1/2" woven
Reduction ..... Not recommended

If specific application equipment is listed above, equivalent equipment may be substituted.

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations

when using solvents.

showers, or countertops.

CAUTION

HOTW KOR 06/24/2015 K45W00151 11 135

Not for use on surfaces continuously wet or under water, such as bath tubs, sinks,

Industrial™

Waterbased Alkyd Urethane Enamel Gloss

B53-1050/2050 Series

CHARACTERISTICS

Pro Industrial Waterbased Alkyd Urethane Enamel is a premium quality interior-exterior enamel formulated with a urethane modified alkyd resin system for high performance. It provides beauty and durability when applied to interior-exterior surfaces such as properly prepared drywall, wood, masonry and metal. It brings together the convenience and ease of use of a waterborne coating with the performance and coating characteristics of a traditional oilbased enamel.

- Excellent washability & flow & leveling
- Excellent touch up
- Easy application & cleanup
- Resistant to yellowing compared to traditional alkyds
- Suitable for use in USDA inspected facilities

For use on properly prepared:
Steel, Galvanized & Aluminum, Drywall, Concrete and Masonry, and Wood.

Finish: 75°+ @60°
Color: Most colors

Recommended Spreading Rate per coat:

Wet mils:	4.0-5.0
Dry mils:	1.3-1.6
Coverage:	320-394 sq.ft. per gallon

Theoretical Coverage: 513 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.

@77°F

To touch 1-2 hours **To recoat** 4 hours

Tinting with CCE only:

Base	**oz. per gallon**	**Strength** Extra
White	0-6	SherColor
Deep Base	4-12	SherColor
Ultradeep Base	10-14	SherColor

Extra White B53W02051
(may vary by color)

V.O.C. (less exempt solvents):
less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 32 ± 2%
Weight Solids: 49 ± 2% **Weight per Gallon:** 10.68 lb
Flash Point: N/A
Vehicle Type: Urethane modified alkyd **Shelf Life:** 36 months, unopened

COMPLIANCE

As of 03/10/2020, Complies with:

OTC	**Yes**
OTC Phase II	**Yes**
SCAQMD	**Yes**
CARB	**Yes**
CARB SCM 2007	**Yes**
Canada	**Yes**
LEED® v4 & v4.1 Emissions	**No**
LEED® v4 & v4.1 V.O.C. Yes EPD-NSF® Certification No	
MIR-Manufacturer Inventory	**No**
NSF® Certification	
MPI®	**No**

APPLICATION

Temperature:
minimum 50°F / 10°C maximum 100°F / 37.8°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: Water

Airless Spray:
Pressure 2000 p.s.i. Hose 1/4 inch I.D. Tip .013 - .017 inch

Filter	60 mesh
Reduction	Not recommended
Brush	Nylon-polyester
Roller Cover	1/4-1/2 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

No painting should be done immediately after a rain or during foggy weather.
When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. Apply coating evenly while maintaining a wet edge to prevent lapping.

SPECIFICATIONS:

Steel:
1 coat Pro Industrial Pro-Cryl Primer 2 coats Pro Industrial Waterbased Alkyd Urethane

Aluminum and Galvanizing:
1 coat Pro Industrial Pro-Cryl Primer 2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete Block (CMU):
1 coat Pro Industrial Heavy Duty Blockfiller or Loxon Acrylic Block Surfacer 2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete-Masonry:
coat Loxon Concrete & Masonry Primer (if needed)
coats Pro Industrial Waterbased Alkyd Urethane

Drywall:
1 coat ProMar 200 Zero V.O.C. Primer 2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, exterior:
1 coat Exterior Wood Primer 2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, interior:
coat Premium Wall & Wood Primer
coats Pro Industrial Waterbased Alkyd Urethane

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

Pro Industrial™

Waterbased Alkyd Urethane Enamel Gloss

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.

Do not use hydrocarbon solvents for cleaning.

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 per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance

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 55°F (13°C) before filling. Use Pro industrial Heavy Duty Block Filler or Loxon Acrylic 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. 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. Prime the area the same day as cleaned. 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 Loxon Conditioner, following label 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.

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.

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.

Method:	ASTM D3359 method B
Result:	4B
Pencil Hardness:	
Method:	ASTM D3363
Result:	5H
Flexibility:	
Method:	Method: ASTM D522, 180°bend, 1/4" mandrel
Result:	Pass

PERFORMANCE

System Tested: (unless otherwise indicated)
Substrate: Steel
Surface Preparation: SSPC-SP10
Finish:
1 coat Waterbased Alkyd Urethane, 5 W.F.T.

Adhesion:	
Dry Heat Resistance:	
Method:	ASTM D2485
Result:	200°F
Block Resistance:	
Lab assessment	Excellent
Resistance to Yellowing:	
Lab assessment	Excellent

No painting should be done immediately after a rain or during foggy weather. Do not paint on wet surfaces. Check adhesion by applying a test strip to determine the readiness for painting.

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, hands and tools immediately after use with soap and warm water. 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 03/10/2020 B53W01053 10 38
FRC

113.05A

CHARACTERISTICS

Pro Industrial Pro-Cryl® Universal Primer is an advanced technology, self cross-linking acrylic primer. It is rust inhibitive and was designed for both construction and maintenance applications. It can be used as a primer under water-based or solvent-based high performance topcoats.

Features:
- Rust inhibitive, corrosion resistant
- Single component
- Early moisture resistant
- Fast dry
- Lower temperature application 40°F
- Interior and exterior use
- Suitable for use in USDA inspected facilities

For use on properly prepared:
Steel, Galvanized & Aluminum, wood

Finish: Low Sheen

Color: Off White, Medium Grey, and Red

Oxide **Recommended Spreading Rate per coat:**

Wet mils: 5.0-10.0

Dry mils: 1.9-3.8

Coverage: 160-320 sq.ft. per gallon

Theoretical Coverage: 609 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 @ 6.0 mils wet, @ 50% RH:
Drying, and recoat times are temperature, humidity, and film thickness dependent.

	@40°F	@77°F	@120°F
To touch	2 hours	40 minutes	20 minutes
Tack free	8 hours	2 hours	1 hour
To recoat	16 hours	4 hours	2 hours

Tinting: **DO NOT TINT**

Off White B66W01310
(may vary by base)

V.O.C. (less exempt solvents): less than 50 grams per litre; 0.42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 38 ± 2%

Weight Solids: 49 ± 2%

Weight per Gallon: 10.09 lb

Flash Point: N/A

Shelf Life: 36 months, unopened

COMPLIANCE

As of10/11/2021, Complies with:

OTC Yes
OTC Phase II Yes
S.C.A.Q.M.D. Yes
CARB Yes
CARB SCM 2007 Yes
CARB SCM 2020 Yes
Canada Yes
LEED® v4 & v4.1 Emissions Yes
LEED® v4 & v4.1 V.O.C. Yes EPD-NSF® Certified Yes
MIR-Manufacturer Inventory Yes
MPI® Yes

APPLICATION

Temperature:
minimum 40°F maximum 120°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: Water

Airless Spray:
Pressure 2000 p.s.i. Hose 1/4 inch I.D. Tip .015 - .019 inch
Filter 60 mesh

Conventional Spray:
Gun Binks 95
Fluid Nozzle 66 Air Nozzle 63 PB
Atomization Pressure 60 p.s.i. Fluid Pressure 25 p.s.i.

Reduction: as needed up to 5 % by volume
Brush Nylon-polyester **Roller Cover** 3/8 inch woven

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.

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. For best results on rusty surfaces, always apply first coat by brush. 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.

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

For optimal performance, this primer should be topcoated.
For exterior exposure, this primer should be topcoated within 14 days. If 14 days is exceeded remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Finish with appropriate topcoat.

continued on back

Pro Industrial™ Pro-Cryl®
Universal Primer

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.

Do not use hydrocarbon solvents for cleaning.

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 Cleaning per SSPC-SP2. Remove all oil and grease from the surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Prime the area the same day as cleaned. Self priming

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Self priming.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPCSP1. 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. Self priming.

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. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

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.

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 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 away any mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

PERFORMANCE

System Tested: (unless otherwise indicated)

Substrate:	Steel
Surface Preparation:	SSPC-SP10
Finish:	1 coat Pro Industrial Pro-Cryl Off
Method:	ASTM D4541
Result:	p.s.i.
White	
	1 coat Pro Industrial Acrylic
Coating	
Adhesion:	
Corrosion Weathering:	
Method:	ASTM D5894, 10 cycles, 3360 hours
Result:	Passes
Direct Impact Resistance:	
Method:	ASTM D2794
Result:	greater than 140 inch lb.
Dry Heat Resistance:	
Method:	ASTM D2485
Result:	200°F
Flexibility:	
Method:	ASTM D522, 180° bend, 1/4 inch mandrel
Result:	Passes
Moisture Condensation Resistance:	
Method:	ASTM D4585, 100°F, 1250 hours
Result:	Passes
Pencil Hardness:	
Method:	ASTM D3363
Result:	B
Salt Fog Resistance:	
Method:	ASTM B117, 1250 hours
Result:	Passes

Provides performance comparable to products formulated In Lieu of federal specification: AA50557 and Paint Specification: SSPC-Paint 23.

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 INNDFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

HOTW 10/11/2021 B66W01310 04 40 HOTW 10/11/2021 B66A01320 05 39 HOTW 10/11/2021 B66N01310 05 40 FRC

113.12SGA

Pro Industrial™
Waterbased Alkyd Urethane Enamel Semi-Gloss
B53–2150/5150 Series

CHARACTERISTICS

Pro Industrial Waterbased Alkyd Urethane Enamel is a premium quality interior-exterior enamel formulated with a urethane modified alkyd resin system for high performance. It provides beauty and durability when applied to interior-exterior surfaces such as properly prepared drywall, wood, masonry, and metal. It brings together the convenience and ease of use of a waterborne coating with the performance and coating characteristics of a traditional oil-based enamel.

- Excellent washability, flow and leveling
- Excellent touch up
- Easy application & cleanup
- Resistant to yellowing compared to traditional alkyds
- Suitable for use in USDA inspected facilities

For use on properly prepared: Steel, Galvanized & Aluminum, Drywall, Concrete and Masonry, and Wood.

Finish: 50-70 units @ 60°
Color: Most Colors

Recommended Spreading Rate per coat:

Wet mils:	4.0-5.0
Dry mils:	1.4-1.7
Coverage:	320-400 sq. ft. per gallon
Theoretical Coverage:	545 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.

	@77°F
To touch	1-2 hours
To recoat	4 hours

Tinting with CCE only:

Base	oz. per gallon	Strength
Extra White	0-6	SherColor
Deep Base	4-12	SherColor Ultradeep
Base	10-14	SherColor

Extra White B53W02151
(may vary by color) **V.O.C.**
(less exempt solvents):
less than 50 grams per litre; 0.42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 34 ±2%
Weight Solids: 51 ±2%
Weight per Gallon: 10.93 lbs
Flash Point: N.A. **Vehicle Type:** Urethane Modified Alkyd
Shelf Life: 36 months, unopened

COMPLIANCE

As of 12/11/2023, Complies with:

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

APPLICATION

Temperature:
minimum 50°F /
10°C maximum 100°F /
37.8°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: Water

Airless Spray:

Pressure	2000 p.s.i. Hose	¼ inch I.D.
Tip		.013-.017 inch
Filter		60 mesh
Reduction:		Not recommended

Brush: Nylon-polyester **Roller Cover:** 1/4-1/2 inch woven
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.

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

When using spray equipment, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. Apply coating evenly while maintaining a wet edge to prevent lapping.

SPECIFICATIONS

Steel:
1 coat Pro Industrial Pro-Cryl Primer
2 coats Pro Industrial Waterbased Alkyd Urethane

Aluminum & Galvanizing:
1 coat Pro Industrial Pro-Cryl Primer

2 coats Pro Industrial Waterbased Alkyd Urethane

Concrete Block (CMU):
1 coat Pro Industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer 2 coats Prb Industrial Waterbased Alkyd Urethane 2

Concrete-Masonry: 1 coat Loxon Concrete & Masonry Primer or 1 coat Loxon Conditioner 2 coats Pro Industrial Waterbased Alkyd Urethane

Drywall:
1 coat ProMar 200 Zero V.O.C. Primer
2 coats Pro Industrial Waterbased Alkyd Urethane

Wood, exterior:
coat Exterior Wood Primer
coats Pro Industrial Waterbased Alkyd Urethane

Wood, interior:
1 coat Premium Wall & Wood Primer
2 coats Pro Industrial Waterbased Alkyd Urethane

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

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 1-800-424LEAD or log on to www.epa.gov/lead.

Do not use hydrocarbon solvents for cleaning.

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 per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance. **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 SSPCSP1. 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 55°F (13°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Acrylic 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 SSPCSP13/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. 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. Prime the area the same day as cleaned. 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 Loxon Conditioner, following label 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.

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.

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

System Tested: (unless otherwise indicated)
Substrate: **Steel**
Surface Preparation **SSPC-SP10**
Finish: Pro Industrial Waterbased Alkyd Urethane @5.0 W.F.T.

Adhesion:
Method: ASTM D3359 method B
Result: 4B

Pencil Hardness:
Method: ASTM D3363
Result: 4H

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

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

Block Resistance:
Method: Lab assessment
Result: Excellent

Resistance Yellowing:
Method: Lab assessment
Result: Excellent

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

Do not paint on wet surfaces.

Check adhesion by applying a test strip to determine

the readiness for painting.

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, hands, and tools immediately after use with soap and warm clean water. 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 regulation.

HOTW 12/11/2023 B53W02151 13 39 FRC, SP

115.10

loxon XP Waterproofing Masonry Coating-Flat

LX11-50 Series

CHARACTERISTICS

Loxon XP is an exterior, high build coating that provides excellent flexibility, durability and weather resistance. This product will protect against wind-driven rain when used on concrete, CMU, stucco and shotcrete-gunite. It is highly alkali and efflorescence resistant. This may be applied to a surface with a pH of 6 to 13.

Apply directly to fresh concrete (at least 7 days old).

Shotcrete/gunite surfaces may be painted after 3 days.

Can be applied over high pH (up to 13) substrates, no primer required.

Can be applied down to 35°F.

Color: Most Colors

1 coat system, brush, roller, or spray applied, coverage per coat:

Wet mils: 14.5-18.5 Dry mils: 6.5-8.4

Coverage sq.ft. per gallon 85-110

Can be applied up to 40 mils wet.
Coverage will vary with the substrate and the texture. Coverage on porous & rough stucco 80 square feet per gallon.

Drying Schedule @ 50% RH: temperature and humidity dependent.

	@35-45°F	@ 45°F+
Touch:	6 hrs	4 hrs
Recoat:	24-48 hrs	24 hrs

Drying time is temperature, humidity, and film thickness dependent.

Finish: 0-10 units @ 85°

Tinting with CCE only:

Base	oz.per Strength gallon
Extra White	0-6 SherColor
Deep Base	4-12 SherColor
Ultradeep	10-12 SherColor
Light Yellow	0-12 SherColor

Extra White LX11W0051
(may vary by color)

V.O.C. (less exempt solvents):
less than 50 grams per litre;0.42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 45 ± 2%
Weight Solids: 61 ± 2%
Weight per Gallon: 11.46 lb
Flash Point: N.A.
Vehicle Type: Proprietary Acrylic
Shelf Life: 36 months,unopened

Mildew Resistant:
This coating contains agents which inhibit the growth of mildew on the surface of this coating film. Passes ASTM D3273/D3274

COMPLIANCE

As of 2/4/2022, Complies with:

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

APPLICATION

Temperature:
minimum 35°F
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: Do not reduce
Airless Spray:
Pressure 2300 p.s.i.
Tip .021 inch
Brush Use a nylon/polyester brush
Roller Cover Use a ½ to 1½ inch nap synthetic roller cover. The substrate and its condition will determine the application procedure. Considerations to minimize pinholes:

2 coat application with overnight drying between coats

Spray application with backrolling

Power rolling

Spray and backroll on porous & rough stucco to achieve required film build and a pin-hole free surface.

When the air temperature is at 35°F, substrates may be colder. Prior to painting, check to be sure the air, surface, and material temperatures are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below
35°F or when air or surface temperatures may drop below 35°F within 48 hours.

Do not reduce.

APPLICATION TIPS

For proper waterproofing performance and to resist alkalies, 2 coats of the coating **MUST** be applied between 14.5 -18.5 mils wet per coat.

A total dry film thickness of 13 - 16.8 mils of topcoat and a surface with 10 or less pinholes per square foot is required for a waterproofing system.

For extremely porous block a coat of Loxon Block Surfacer may be required to achieve a pinhole free surface.

For rehabilitating existing concrete water tanks, additional products may be used.

RECOMMENDED SYSTEMS

Concrete, Stucco, Concrete Block, CMU, Split-face Block, and other Cementitious surfaces

1 coat Loxon Acrylic Block Surfacer (if needed) or Loxon Conditioner (if needed)

1-2 coats Loxon XP

Previously Coated in good condition:

After power washing, apply 1 coat of Loxon XP over the surface.

Incidental Wood:

1 coat Exterior Latex Wood Primer 1-
2 coats Loxon XP

Incidental Metal:

(steel, galvanized, or aluminum):

1 coat Pro Industrial Pro-Cryl Primer

1-2 coats Loxon XP

Waterproofing System:

- Two coats of topcoat
- 6.5 to 8.4 mils d.f.t. per coat
- 13 to 16.8 mils total dry film thickness
- 10 or less pinholes per square foot

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 **1800-424-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. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. 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.

Concrete, CMU, Stucco:

On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Concrete and mortar must be cured at least 7 days at 75°F. Fill bugholes, air pockets, cracks, and other voids with an elastomeric patch or sealant. Rough surfaces can be filled to provide a smooth surface.

Incidental Metal:

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method. Primer required.

Incidental Wood:

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed. Primer required.

Sealing and Patching—After cleaning the surface thoroughly, prime the concrete surface with Loxon XP, apply an elastomeric patch or sealant if needed, allow to dry, then topcoat.

To improve the performance, consider:

- Use caution when preparing the substrate to create a uniform surface.
- Cracks, crevices, and through-wall openings must be patched with an elastomeric patch or sealant.
- Fill voids and openings around window and doors with an elastomeric patch or sealant.
- Stripe coat all inside and outside corners and edges with 1 coat of Loxon XP coating.

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 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.

PHYSICAL PROPERTIES

Do not paint on wet surfaces.

LX11W0051

Wind-Driven Rain Test : Pass Method: ASTM D6904 7 day cure
2 coats Loxon XP @ 8.1 mils d.f.t. per coat
Water Vapor Permeance:
(perms) 18.03 grains/h-ft²-in Hg.
Method: ASTM D1653 7 day cure @ 73°F & 50%
RH: Method B, Condition A-Wet cup
2 coats Loxon XP @ 8.1 mils d.f.t. per coat
Elongation : 312%
Method: ASTM D412, 7 day cure @ 72°F & 50% RH 20 inch per minute
2 coats Loxon XP @ 8.1 mils d.f.t. per coat
Tensile Strength : 295 p.s.i.
Method: ASTM D412, 7 day cure @ 72°F & 50% RH 20 inch per minute
2 coats Loxon XP @ 8.1 mils d.f.t. per coat
Flexibility:
Method: ASTM D522, 9 mils d.f.t.,1 day cure
Result: Pass 1/8 inch
Alkali Resistance:
Method: ASTM D1308, 7 day cure, 11.25 mils
d.f.t. Result: Pass
Chloride Ion Permeability:
Result: 243 coulombs Result: "Very Low" Permeability Class
CO_2 Diffusion (anti-carbonation):
Method: ASTM F2476
Result: 344 meters
equivalent air thickness >50 meters to pass
8.0 g/m²/24 hrs
Crack Bridging: Class A5 Pass
Method: EN 1062-7 Method A
Result: up to 2.5 mm @-10°C
Efflorescence:
Method: ASTM D7072-19
1 coat, 1 day cure, 7.2 d.f.t.
Result: Pass

Adhesion:
Method: ASTM D4541
2 coats, 7 day cure, 7.2 d.f.t. per coat
Result: 375 average p.s.i.

CAUTIONS

For exterior use only.

Protect from freezing.

Non-photochemically reactive.

Not for use on horizontal surfaces (floors, roofs, decks, etc.) where water will collect.

Not for use below grade. Will not withstand hydrostatic pressure.

Before using, carefully read **CAUTIONS** on label.

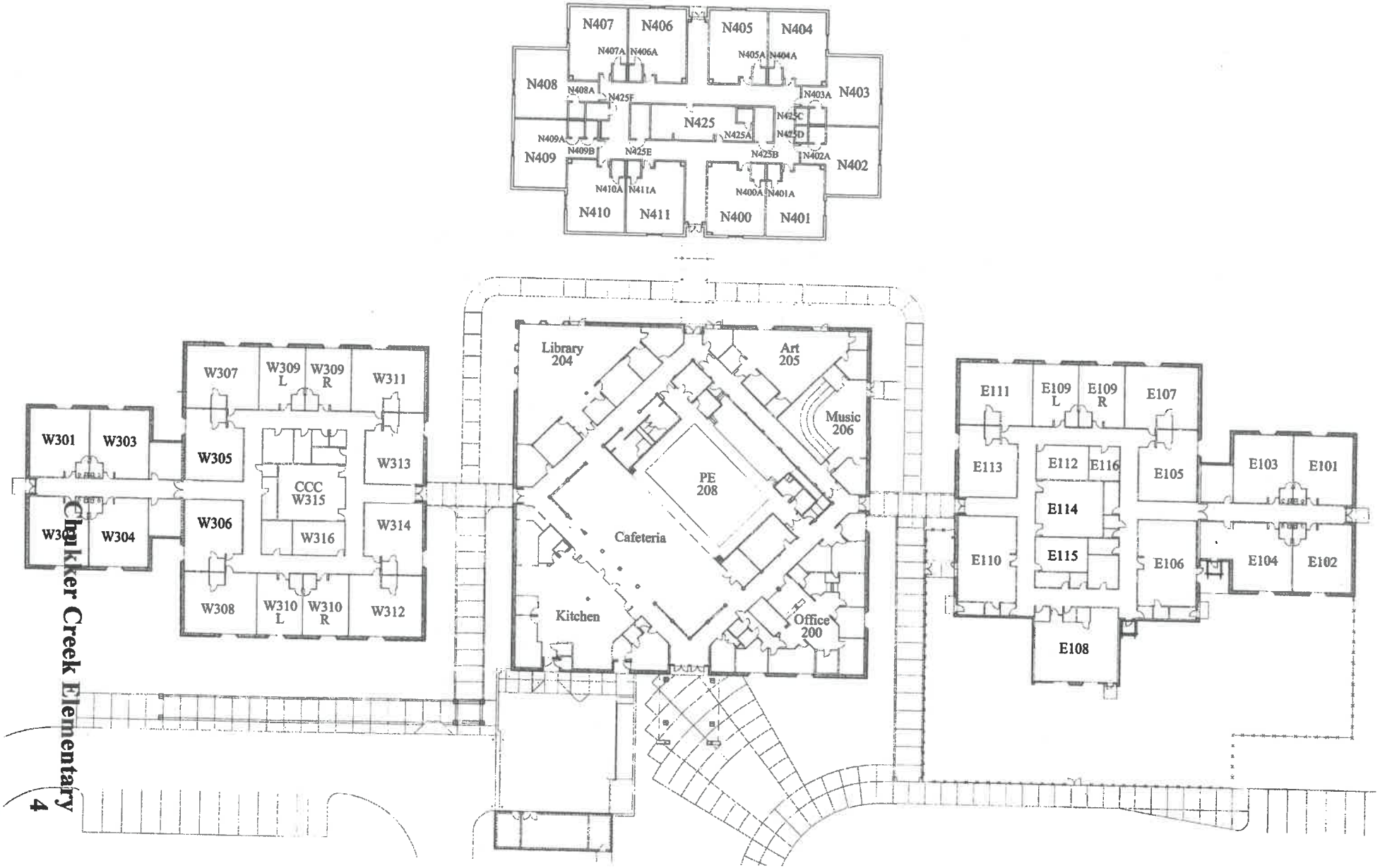
ZINC. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID**: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING**: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 2/4/2022 LX11W0051 27 00
FRC, SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solven

Chukker Creek Elementary School
1830 Chukker Creek Road
Aiken, SC 29803



CONTRACTOR'S ONE-YEAR GUARANTEE

(This is only to be filled out if awarded project and should be given to owner at the end of the project with close outs)

STATE OF: **South Carolina**

COUNTY OF: **Aiken**

PROJECT: **2024 Painting of Chukker Creek Elementary School**

PROJECT NAME: _____

_____

(Contractor to fill in name of each individual school of this project and to submit one form filled in and signed for each separate school.)

We, _____, as the General Contractor on the above named project do hereby guarantee that all work executed under the requirements of the Contract Documents shall be free from defects due to faulty materials and/or workmanship for a period of at least one (1) year from date of the execution of the Certificate of Substantial Completion and hereby agree to remedy defects due to faulty materials and/or workmanship and pay for any damage resulting therefrom, at no cost to the Owner provided, however, that the following are excluded from this guarantee:

Defects or failures resulting from abnormal usage or abuse by the Owner. Damage caused by fire, tornado, hurricane, Acts of God, wars, riots or civil commotion.

Note: It is understood that this guarantee is in addition to any guarantee provided by manufacturer of the paints used on this project and is to be considered as "minimum guarantee" only.

1.02 It is specifically understood that the terms of this guarantee, the compliance therewith and the fulfillment of all obligations thereunder are fully protected by the Performance Bond furnished by the Contractor, and do not void any other more stringent warranties that may normally be in effect.

Name of Contracting Firm:

By:

Title:

***Must be executed by an officer of the contracting firm**

Sworn to before me this _____ day of _____, 2024

_____ **(seal) Notary Public for (State)**

FORM OF PROPOSAL

DATE: _____

SUBJECT: **Bidder's Proposal for "2024 Painting of Chukker Creek Elementary School"**

TO: **Kevin Chipman, Facilities Construction Department,**
Aiken County Public Schools
61 Given Street
Aiken, South Carolina 29805

FROM: _____
Bidder

_____
Address

_____

_____ _____
Telephone Number **Fax Number**

_____ **Email Address**

The undersigned certifies that all materials and products offered must be guaranteed to meet the requirements of the specifications indicated, given, or referred to in the project manual entitled

"2024 Painting of Chukker Creek Elementary School"
Bid Date: March 20, 2024 at 2:00 p.m.

NOTE TO BIDDER: In case of tie bids, the award will be determined according to the School District Procurement Code Section (V) (B) (2) (i).

FAILURE BY THE BIDDER TO BID AN ALTERNATE(S) SHALL RENDER THE BID NON-RESPONSIVE. An alternate shall be bid by indicating either a dollar amount or the words "No Change".

The undersigned having carefully examined the specifications and their related documents, and being familiar with the site and physical conditions affecting the proposed work, and being familiar with the availabilities of materials and labor, do hereby propose the following bid(s):

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. _____ DATED: _____
ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. _____ DATED: _____
ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. _____ DATED: _____

BASE BID:

1. **The Bidders are requested to submit their bids in the formats as outlined on the following pages but may submit different combinations of bids as he/she selects.**

2. **The Owner reserves the right to waive any informality in bidding and to reject any or all bids.**

3. **Awarding of contracts will be at the Owner's discretion but will be based on what he/she considers to be in his/her best interest.**

4. **The Owner's intent is to award this project on a school-by-school basis.**

5. **Add the allowance for each school to the Bidder's base bid for additional scope of work per Section 16.0 Allowances. Any unused allowance at the job's completion will be returned to the Owner.**

Project: " 2024 Painting of Chukker Creek Elementary School"

For the complete project, interior, walls only and including all applicable taxes, as described and implied by plans and specifications:

Base Bid 1: Paint All previously painted surfaces. Interior walls, trim, windows, and doors. Paint the Exterior trim, windows, covered walkways and doors. Include $5,000.00 allowance to Base Bid.

_____

_____ **Dollars ($** _____**. ____)**

Proposed Start and Completion Dates: To be determined by approved Contractor and Owner

DATE FOR COMMENCEMENT AND SUBSTANTIAL COMPLETION

The Undersigned hereby agrees to deliver to the Owner three (3) executed copies of the AGREEMENT within seven (7) days from the date set forth in the NOTICE TO PROCEED. Begin execution of work only after the required Performance Bond, Payment Bond, and Certificate of Insurance have been delivered to the Owner. Failure to comply with any of the above conditions or to commence actual physical work on this project within twenty-one (21) days from date set forth in the NOTICE TO PROCEED will entitle the Owner to consider your bid unresponsive. In this event, the Owner may withdraw the NOTICE TO PROCEED and declare your bid security forfeited. All work shall be substantially completed by the date established in the AGREEMENT.

LISTING OF SUBCONTRACTORS

List all painting Subcontractors and paint material suppliers who will perform work or services. FOR BASE BID.

Name of Trade	Subcontractor's or Material Suppliers Name, Location (City and State), Contact and Phone Number
1.	
2.	
3.	

NOTE:

Failure to list Subcontractor's and material suppliers in accordance with the code shall render the Contractor's bid unresponsive. State shall be assumed to be South Carolina, unless shown otherwise. All work shall be assumed to be by the Bidder's own personnel, unless shown otherwise.

No Contractor whose bid is accepted shall substitute any person as Subcontractor in place of the Subcontractor listed in the original bid, except with the consent of the Owner, for good cause shown.

DISCOUNTS APPLICABLE TO THE ABOVE ITEMS ARE AS FOLLOWS: N/A

WARRANTED ITEMS ARE AS FOLLOWS: All materials and labor complete for a period of one (1) year from date of substantial completion as specified in specifications.

ESTIMATED DELIVERY TIME FOR STOCK ITEMS AFTER RECEIVING ORDER ARE: _____

ESTIMATED DELIVERY TIME FOR FACTORY SHIPPED ITEMS AFTER RECEIVING ORDER ARE: _____

SHIPPING TERMS: _____

Time of delivery will be a factor in making this award.

BID HOLDING TIME

The undersigned hereby agrees that this bid may not be revoked or withdrawn after the time set for opening of bids, but shall remain open for a period of sixty (60) days following such time.

BID SECURITY

Enclosed is a Bid Bond or Certified Check in the amount of _____ _____Dollars ($_____.____) being not less than five percent (5%) of the total Base Bid, payable to the Owner. The undersigned agrees that the above stated amount is the proper measure of liquidated damages, which the Owner will sustain by failure of the undersigned to execute a contract. The undersigned agrees that, if he/she is unwilling to execute a contract, the obligation of the Bid Bond will remain in full force and effect and the monies payable thereon shall be paid into the funds of the Owners as liquidated damages for such failure.

BIDDER'S QUALIFICATIONS

It is understood that before the Proposal is considered for award, the Bidder may be requested by the Owner to submit a statement of facts in detail as to his/her previous experience similar to comparable work and of his/her business and technical organization and financial resources available to be used in performing contemplated work.

CERTIFICATION REGARDING DRUG-FREE WORKPLACE

The undersigned certifies that the Contractor listed below will provide a "DRUG FREE WORKPLACE" as that term is defined in Section 44-107-30 of the S.C. Code of laws by complying with the requirements set forth in Title 44, Chapter 107.

_____ _____

Company Name of Bidder **Representative's Signature**

_____

Title

_____

Address

_____

_____ _____

Telephone Number **Fax Number**

_____ **Email Address**

REQUIRED ATTACHMENTS: Certificate of Insurance, bid security, brand name with product data & installation instructions.

Federal Identification Number: _____

Contractor's Classifications and subclassifications with limitations

_____

(Classification) **(Subclassification)** **(Limitations)**

_____

(S.C. Specialty Painting License Number)

	Aiken County School District Invitation for Bid	Solicitation Number: Date Issued: Procurement Officer: E-Mail Address:	32024 2/15/2024 Kevin A. Chipman kchipman@agpsd.net Facilities Construction Department

The Term "Offer" Means Your "Bid" or "Proposal". Your offer must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior. See "Submitting Your Offer" provision.

SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

MAILING ADDRESS:	PHYSICAL ADDRESS:
ACPSD/Facilities Construction Department 61 Given Street Aiken, SC 29805	ACPSD-Facilities Construction Department 61 Given Street Aiken, SC 29805

QUESTIONS MUST BE RECEIVED BY: **March 13, 2024 at 11:00 am.**

BIDS MUST BE RECEIVED NO LATER THAN **March 20, 2024 at 2:00 p.m.**

NUMBER OF COPIES TO BE SUBMITTED: **One (1) original**

CONFERENCE TYPE: **Pre-Bid Conference** DATE & TIME: **March 6, 2024 at 10:30 am** (As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)	LOCATION: Chukker Creek Elementary School 1830 Chukker Creek Rd. Aiken SC, 29803
AWARD & AMENDMENTS	Amendments and Awards will be posted on the District's website at www.acpsd.net (Departments, Facilities Construction). **It is the bidder's responsibility to check for amendments.**

You must submit a signed copy of this form with Your Offer. By submitting a bid or proposal, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of sixty (60) calendar days after the Opening Date. (See "Signing Your Offer" and "Electronic Signature" provisions.)

NAME OF OFFEROR (Full legal name of business submitting the offer)		Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietOßhip, etc.
AUTHORIZED SIGNATURE (Person must be authorized to submit binding offer to contract on behalf of Offeror.)		TAXPAYER IDENTIFICATION NO. (See "Taxpayer Identification Number" provision)
TITLE (Business title of person signing above)		
PRINTED NAME (Printed name of person signing above)	DATE SIGNED	STATE OF INCORPORATION (If you are a corporation, identify' the state of incorporation.)

SOUTH CAROLINA MINORITY BUSINESS? YES _____ NO_____	**MINORITY CATEGORY** _____ Traditional minority, woman, etc.)

OFFEROR'S TYPE OF ENTITY: (Check one) (See "Signing Your Offer" provision.)

Sole Proprietorship	Partnership	Other_____
Corporate entity (not tax-exempt)	Corporation (tax-exempt)	Government entity (federal, state, or local)

(Return Pages One and Two with Your Offer)

HOME OFFICE ADDRESS (Address for offeror's home office / principal place of business)	NOTICE ADDRESS (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause) Area Code - Number - Extension Facsimile E-mail Address
PAYMENT ADDRESS (Address to which payments will be sent.) (See "Payment" clause) ____Payment Address same as Home Office Address ____Payment Address same as Notice Address **(check only one)**	ORDER ADDRESS (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses) ____Order Address same as Home Office Address ____Order Address same as Notice Address **(check only one)**

ACKNOWLEDGMENT OF AMENDMENTS
Offerors acknowledges receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)

Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date

DISCOUNT FOR PROMPT PAYMENT (See "Discount for Prompt Payment" clause)	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	____Calendar Days (%)

PREFERENCES - ***ALL THE PREFERENCES MUST BE CLAIMED AND ARE APPLIED BY LINE ITEM, REGARDLESS OF WHETHER AWARD IS MADE BY ITEM OR LOT.*** **VENDORS ARE CAUTIONED TO CAREFULLY REVIEW THE STATUTE BEFORE CLAIMING ANY PREFERENCES. THE REQUIREMENTS TO QUALIFY HAVE CHANGED. IF YOU REQUEST A PREFERENCE, YOU ARE CERTIFYING THAT YOUR OFFER QUALIFIES FOR THE PREFERENCE YOU'VE CLAIMED. IMPROPERLY REQUESTING A PREFERENCE CAN HAVE SERIOUS CONSEQUENCES.**

PREFERENCES - ADDRESS AND PHONE OF IN-STATE OFFICE: Please provide the address and phone number for your in-state office in the space provided below. An in-state office is necessary to claim either the Resident Vendor Preference or the Resident Contractor Preference. Accordingly, you must provide this information to qualify for the preference. An in-state office is not required, but can be beneficial, if you are claiming the Resident Subcontractor Preference.

____ In-State Office Address same as Home Office Address
____ In-State Office Address same as Notice Address (check only one)