



BID INSTRUCTIONS

2019 Fire Station #2 Flooring

The City of Yukon is soliciting bids to replace the flooring at 302 South 5th Street Yukon, Oklahoma (Fire Station #2.) The bids shall be in accordance with the following instructions:

1. All bids will be submitted in a **sealed** envelope or packet marked **"SEALED BID-FIRE STATION #2 FLOORING."**
2. Bids shall **NOT** be stapled or bound.
3. The City of Yukon shall have the authority to reject the bid or any and all bids and any part or provision of a bid or the bid when it is deemed to be in the best interest of the City. The City of Yukon also reserves the right to waive any irregularity of the bid process. Additionally, the City has the authority to direct the readvertisement or resolicitation of any bid.
4. Bids shall be **submitted** no later than **10:00 a.m., Friday, August 30, 2019**, to the City Clerk at 500 W. Main, Yukon, Oklahoma. Bids may also be mailed to P.O. Box 850500, Yukon, Oklahoma 73085. All bids will be **opened** at 10:00 a.m., Friday, August 30, 2019 in the Conference Room, City Hall, 500 W. Main, Yukon, Oklahoma.
5. There will be a **Pre-Bid Meeting** at **2:00 PM, Wednesday, August 21, 2019** in the Conference Room, City Hall, 500 W. Main, Yukon, Oklahoma then continuing on to the site at 302 South 5th Street, Yukon, Oklahoma.
6. Faxed bids will not be accepted.
7. American, Oklahoma and Yukon owned firms are encouraged to submit a bid. The City reserves the right to award the bid to a business located within the corporate limits of the City of Yukon if the eligible business submits a bid that is within five (5) percent of the lowest apparent bid.
8. Bid paperwork should be no larger than letter size paper. Do not bind bid.
9. Please complete the non-collusion affidavit and submit with your bid.
10. Additional information may be received by contacting Doug Shivers, City Clerk.
Email: dshivers@yukonok.gov
Phone: 405-350-3919
Physical Address: 500 W. Main, Yukon, Oklahoma 73099
Mailing Address: PO Box 850500, Yukon, Oklahoma 73085



BID FORM

Project: **City of Yukon –Fire Station #2 Flooring**
Description: **Replace the flooring at Fire Station #2 located at 302 South 5th Street, Yukon, Oklahoma 73099**

Corporation/Firm: _____

Address: _____

Contact: _____ Phone: _____

Email address: _____ Fax: _____

To the Mayor and Council of the City of Yukon:

The undersigned, as bidder, declares that before preparing this Bid, the Bidder read carefully the Bid Instructions, and the general and detailed Specifications, the Bid Form and Affidavits and Certificates and any other documentation or information to be submitted, and has examined the form of the Contract and the several Bonds, and that the bidder is familiar with and able to comply with all the provisions of the same and with all the requirements of the complete Contract to be entered into and Bonds to be executed. Said bidder proposes and agrees to furnish all labor, materials, and equipment, and to perform all operations necessary to complete the work as required by said Contract Documents for the Total Bid Price.

Total Bid Price: \$ _____

THIS PROJECT IS SALES TAX EXEMPT. DO NOT INCLUDE SALES TAX.

In submitting the Bid, it is understood that the right is reserved by the **City of Yukon** to reject any and all bids, and it is agreed that this Bid may not be withdrawn for a period of forty-five (45) days after date of filing same. Said Bidder proposes and agrees that if his Bid is accepted, the Bidder will enter in to the contract with the **City of Yukon**, and properly submit the required Bonds within seven (7) days after acceptance of his Bid and the award to the Bidder.

Bidder hereby agrees to commence work within thirty (30) calendar days after the Bid is approved by the City of Yukon and to complete same as stated in the Contract agreed upon. We herewith enclose Bidder's Bond, or Certified Check, or Cashier's Check in the amount of \$ _____ as required in the Specifications.

ATTEST: (Corporate Seal)

Signature

Name of Corporation/Firm

Print Name, Title

All signatures must be original ink signatures.

Subscribed and sworn to before this ____ day _____ of 2019.

My Commission Expires: _____

Notary Public (seal)

SPECIFICATIONS

SCOPE OF WORK:

This specification covers the floor removal, surface preparation, leveling, cove trim, sealing and installation of the flooring of Fire Station #2. It includes the entire interior excluding restrooms.

INCLUSIONS:

1. The Contractor is to remove existing flooring (approximately 2,830 square feet) and cove base trim (approximately 700 feet.)
2. Prep surfaces to include but not limited to removal of existing adhesives, hand grind edges, shot blast surface of concrete to remove paints and other containments. Surface should be prepared for coating application.
3. Repair any damaged surfaces prior to floor installation.
4. Apply to the concrete surface a self leveling broadcast colored chip, epoxy resin broadcast and seamless flooring system, ICO Ure Guard Slurry with flake finish or equivalent.
5. Apply polyaspartic 90% solid clear topcoat with squeegee application.
6. Install 4" cove base trim
7. Colors are to be selected by Owner.
8. Complete specs are included in Attachment A. Specifications should match DUR-A-Flex or be of an equivalent Industry Standard.
9. The City of Yukon will supply a roll-off dumpster for non-hazardous construction material associated with the project at the request of the contractor.

CONTRACTOR RESPONSIBILITIES:

1. The Contractor shall supply all necessary labor, materials and equipment necessary for the total completion of the required work. The contractor shall be responsible for and use care in the protection of the Owners' property; and shall protect other areas not in the scope of work from damage. If such damage occurs, the Contractor shall be solely responsible for the restoration of such damages as the result of the Contractor's or any employees of the contractor, except as noted below. The Contractor shall work with the Fire Chief to arrange for all equipment, furnishings, etc. to be removed from the work area to safeguard against possible damage.
2. All work shall be performed in a workmanlike manner by skilled mechanics and shall be carried out in such a way as to minimize any inconvenience to the occupants and tenants. The Contractor shall maintain a full work force from the start to the completion of the project, providing a qualified foreman on the jobsite at all times. The Contractor shall ensure that all such mechanics shall be fully and properly clothed; in identifiable uniforms while working on the premises or entering any part of the work area.

3. All equipment and other materials shall be secured at the end of each workday. Upon completion of the work, the Contractor shall promptly remove all debris, material, and equipment, etc., and shall leave the premises of the jobsite clean and orderly.
4. The Contractor shall deliver, or have delivered, necessary materials in unopened containers with the original labels and batch numbers clearly visible. All materials shall be used in strict adherence to the manufacturer's written specifications and/or recommendations. Follow the label directions.
5. The Contractor shall arrange with the Fire Chief for working space, space for material storage, and proper access to the areas where the work is to be performed.

OWNER'S RESPONSIBILITIES:

The Owner shall provide proper water and electric service for the preparation of materials and equipment necessary to complete the work. Use of sanitary facilities shall be by mutual consent. The Owner shall be responsible to remove or protect loose objects in the work area that are not included in this scope of work. If such items are not removed, the contractor shall exercise due diligence to protect any such items, but will not be responsible for any damages. The Owner shall be responsible for providing proper parking space for vehicles, and equipment as necessary to complete all work.

SAFETY AND PUBLIC CONVEYANCE:

The Contractor shall be responsible for job safety administration, (including tools, equipment, and work methods), and must be in compliance with applicable OSHA safety regulations.

SURFACE PREPARATION:

Proper surface preparation is the responsibility of the Contractor. See Attachment A for Manufacturers specifications. Surfaces shall be prepared in accordance with methods accepted as industry standards. All coatings, oils, grease and unsound concrete must be removed. Concrete surfaces must then be mechanically abraded with a scarifier, shot blaster, or like equipment, to remove surface laitance. A good bonding tooth, the texture of 60 grit sandpaper, is desired for proper adhesion to the substrate. **Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.**



Many times as work progresses situations arise that are unforeseen or problems are uncovered that are outside of the scope of the Contractor's work. When such situations arise, the Contractor shall stop work on this area and the Owner and Contractor should come to some mutual agreement prior to the resumption of work. At no time is the Contractor to continue such new work without written agreement from the Owner. If any additional charges are to be billed beyond the original contract amount.

DOCUMENTS TO INCLUDE:

Business Relationship Affidavit
Non-Collusion Affidavit
Federal form W-9

Worker Compensation Certificate
Liability Insurance Certificate
Electronic Funds Transfer form (optional)

Should any specified materials be substituted, they must meet Industry Standards and approved by the City of Yukon.

The City of Yukon reserves the right to waive minor technicalities under these specifications.

BUSINESS RELATIONSHIPS AFFIDAVIT

STATE OF _____)
) ss
COUNTY OF _____)

_____ of lawful age, being first duly sworn, on oath says that (s)he is the agent authorized by the bidder to submit the attached bid. Affiant further states that the nature of any partnership, joint venture, or other business relationship presently in effect or which existed within one (1) year prior to the date of this statement with the architect, engineer, or other party to the project is as follows:

Affiant further states that any such business relationship presently in effect or which existed within one (1) year prior to the date of this statement between any officer or director of the bidding company and any officer or director of the architectural or engineering firm or other party to the project is as follows:

Affiant further states that the names of all persons having any such business relationships and the positions they hold with their respective companies or firms are as follows:

(If none of the business relationship hereinabove mentioned exist, Affiant should so state.)

Bidder: _____ By: _____
Name of Company Signature & Title

Mailing Address: _____

Phone No: _____ Fax No: _____ Email: _____

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY _____ OF 2018.

MY COMMISSION EXPIRES:

NOTARY PUBLIC:



NON-COLLUSION AFFIDAVIT

STATE OF _____)
 _____)
 _____) SS:
 _____)
 COUNTY OF _____)

The undersigned (architect, contractor, supplier or engineer), of lawful age, being first duly sworn, on oath says that this invoice or claim is true and correct. Affiant further states that the (work, services or materials) as shown by this invoice or claim have been (completed or supplied) in accordance with the plans, specifications, orders or requests furnished the Affiant. Affiant further states that he has made no payment directly or indirectly to any elected official, officer, or employee of the State of Oklahoma, any county or local subdivision of the state, of money or any other thing of value to obtain payment.

Company Name: _____

Print Name of Signer: _____

 Contractor, Supplier or Engineer Signature

Subscribed and sworn to before this _____ day _____ of 2018.

My Commission Expires:

NOTARY PUBLIC:

SECTION 09 67 23-RESINOUS FLOORING

v2

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This section includes the following:
 - 1. Resinous flooring system as shown on the drawings and in schedules.
- B. Related sections include the following:
 - 1. Cast-in-Place Concrete, section 03 30 00
 - 2. Concrete Curing, section 03 39 00

1.3 SYSTEM DESCRIPTION

- A. The work shall consist of preparation of the substrate, the furnishing and application of a cementitious urethane based self-leveling seamless flooring system with decorative colored chip broadcast, epoxy resin broadcast and aliphatic polyaspartic ester topcoat.
- B. The system shall have the color and texture as specified by the Owner with a nominal thickness of 3/16 inch. It shall be applied to the prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.
- C. Cove base (if required) to be applied where noted on plans and per manufacturers standard details unless otherwise noted

1.4 SUBMITTALS

- A. Product Data: Latest edition of Manufacturer's literature including performance data and installation procedures.
- B. Manufacturer's Material Safety Data Sheet (MSDS) for each product being used.
- C. Samples: A 3 x 3 inch square sample of the proposed system. Color, texture, and thickness shall be representative of overall appearance of finished system subject to normal tolerances.

1.5 QUALITY ASSURANCE

- A. The Manufacturer shall have a minimum of 5 years experience in the production, sales, and technical support of cementitious urethane, aliphatic polyaspartic ester industrial flooring and related materials.
- B. The Applicator shall have been approved by the flooring system manufacturer in all phases of surface preparation and application of the product specified.
- C. No requests for substitutions shall be considered that would change the generic type of the specified System.
- D. System shall be in compliance with requirements of United States Department of Agriculture (USDA), Food, Drug Administration (FDA), and local Health Department.
- E. System shall be in compliance with the Indoor Air Quality requirements of California section 01350 as verified by a qualified independent testing laboratory.
- F. A pre-installation conference shall be held between Applicator, General Contractor and the Owner to review and clarification of this specification, application procedure, quality control, inspection and acceptance criteria and production schedule.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING**A. Packing and Shipping**

1. All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and batch number.

B. Storage and Protection

1. The Applicator shall be provided with a dry storage area for all components. The area shall be between 60 F and 85 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.
2. Copies of Material Safety Data Sheets (MSDS) for all components shall be kept on site for review by the Engineer or other personnel.

C. Waste Disposal

1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1.7 PROJECT CONDITIONS**A. Site Requirements**

1. Application may proceed while air, material and substrate temperatures are between 60 F and 85 F providing the substrate temperature is above the dew point. Outside of this range, the Manufacturer shall be consulted.
2. The relative humidity in the specific location of the application shall be less than 85 % and the surface temperature shall be at least 5 F above the dew point.
3. The Applicator shall be supplied with adequate lighting equal to the final lighting level during the preparation and installation of the system.

B. Conditions of new concrete to be coated with cementitious urethane material.

1. Concrete shall be moisture cured for a minimum of 3 days and have fully cured a minimum of 5 days in accordance with ACI-308 prior to the application of the coating system pending moisture tests.
2. Concrete shall have a flat rubbed finish, float or light steel trowel finish (a hard steel trowel finish is neither necessary nor desirable).
3. Sealers and curing agents should not to be used.
4. Concrete shall have minimum design strength of 3,500 psi. and a maximum water/cement ratio of 0.45
5. Concrete surfaces on grade shall have been constructed with a vapor barrier to protect against the effects of vapor transmission and possible delamination of the system.

C. Safety Requirements

1. The Owner shall be responsible for the removal of foodstuffs from the work area.
2. Non-related personnel in the work area shall be kept to a minimum.

1.8 WARRANTY

- A. Dur-A-Flex, Inc. warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially to Dur-A-Flex, Inc. published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.
- B. Dur-A-Flex, Inc. liability with respect to this warranty is strictly limited to the value of the material purchase.

PART 2 – PRODUCTS

2.1 FLOORING

- A. Dur-A-Flex, Inc, Hybri-Flex AC (self leveling broadcast colored chip), epoxy resin broadcast and polyaspartic ester topcoat seamless flooring system.
 - 1. System Materials:
 - a. Topping: Dur-A-Flex, Inc, Poly-Crete SL resin, SL hardener and SL aggregate.
 - b. The colored chips shall be Dur-A-Flex, Inc. Macro colored chips.
 - c. Broadcast coat: Dur-A-Glaze #4 resin and hardener.
 - d. Topcoats: Dur-A-Flex, Inc. Dur-A-Glaze #5 resin and hardener.
 - 2. Patch Materials
 - a. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Poly-Crete MD (up to ¼ inch).
 - b. Deep Fill and Sloping Material (over ¼ inch): Use Dur-A-Flex, Inc. Poly-Crete WR.

2.2 MANUFACTURER

- A. Dur-A-Flex, Inc., 95 Goodwin Street, East Hartford, CT 06108, Phone: (860) 528-9838, Fax: (860) 528-2802
- B. Manufacturer of Approved System shall be single source and made in the USA.

2.3 PRODUCT REQUIREMENTS

A. Topping	Poly-Crete SL
1. Percent Reactive	100%
2. VOC	0 g/L
3. Bond Strength to Concrete ASTM D 4541	400 psi, substrates fails
4. Compressive Strength, ASTM C 579	9,000 psi
5. Tensile Strength, ASTM D 638	2,175 psi
6. Flexural Strength, ASTM D 790	5,076 psi
7. Impact Resistance @ 125 mils, MIL D-3134, No visible damage or deterioration	160 inch lbs
B. Broadcast Coat	Dur-A-Glaze #4
1. Percent Solids	100 %
2. VOC	3.8 g/L
3. Compressive Strength, ASTM D 695	11,200 psi
4. Tensile Strength, ASTM D 638	2,100 psi
5. Flexural Strength, ASTM D 790	5,100 psi
6. Abrasion Resistance, ASTM D 4060 C-10 Wheel, 1,000 gm load, 1,000 cycles	29 mg loss
7. Flame Spread/NFPA-101, ASTM E 84	Class A
8. Impact Resistance MIL D-24613	0.0007 inches, no cracking or delamination
9. Water Absorption. MIL D-24613	Nil
10. Potlife @ 70 F	20 minutes
C. Topcoat	Dur-A-Glaze #5
1. Percent Solids	100%
2. VOC	4.93 g/L
3. Tensile Strength, ASTM D 2370	7,000 psi
4. Flexibility, (1:4 Cylindrical Mandrel) ASTM D 1737	Pass
5. Elongation, ASTM D 2370	9 %
6. Water Absorption ASTM D 570	0.05 %
7. Abrasion Resistance, ASTM D 4060 C-10 Wheel, 1,000 gm load, 1,000 cycles	15 mg weight loss
8. Impact Resistance, MIL D-2794	>160 inch lbs

9.	Hardness, ASTM 3363	3 H
	ASTM, D 2134	40+
10.	QUV, UVB-373/1,500 hrs	90%
11.	60 Gloss, ASTM D 523	90+
12.	Working Time @ 72 F	10-20 minutes
13.	Drying Properties, 72 F, 50% RH	Touch Dry-60 minutes
14.	Recoat, 8 mils	3-4 hours
15.	Hard Dry, 72 F	4-5 hours

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Applicator present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting flooring performance.
1. Verify that substrates and conditions are satisfactory for flooring installation and comply with requirements specified.

3.2 PREPARATION

A. General

1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, dirt, and bituminous products.
2. Moisture Testing: Perform tests recommended by manufacturer and as follows.
 - a. Perform anhydrous calcium chloride test ASTM F 1869-98. Application will proceed only when the vapor/moisture emission rates from the slab is less than and not higher than 20 lbs/1,000 sf/24 hrs.
 - b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 99% relative humidity level measurement.
 - c. If the vapor drive exceeds 99% relative humidity or 20 lbs/1,000 sf/24 hrs then the Owner and/or Engineer shall be notified and advised of additional cost for the possible installation of a vapor mitigation system that has been approved by the manufacturer or other means to lower the value to the acceptable limit.
 - d. **Provide Core Analysis Testing to determine the level of soluble ion deposits at or near the surface. Refer to the Dur-A-Flex Core Analysis Program.**
3. Mechanical surface preparation
 - a. Shot blast all surfaces to receive flooring system with a mobile steel shot, dust recycling machine (Blastrac or equal). All surface and embedded accumulations of paint, toppings hardened concrete layers, laitance, power trowel finishes and other similar surface characteristics shall be completely removed leaving a bare concrete surface having a minimum profile of CSP 4-5 as described by the International Concrete Repair Institute.
 - b. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.
 - c. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch key cut shall be made to properly seat the system, providing a smooth transition between areas. The detail cut shall also apply to drain perimeters and expansion joint edges.
 - d. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's recommendations.
4. At spalled or worn areas, mechanically remove loose or delaminated concrete to a sound concrete and patch per manufactures recommendations.

3.3 APPLICATION

A. General

1. The system shall be applied in five distinct steps as listed below:
 - a. Substrate preparation

- b. Topping/overlay application with colored chip broadcast.
- c. Resin application with colored chip broadcast.
- d. First topcoat application
- e. Second topcoat application.
2. Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall be removed using a vacuum or clean, dry, oil-free compressed air.
3. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
4. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.
5. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

B. Topping

1. The topping shall be applied as a self-leveling system as specified by the Architect. The topping shall be applied in one lift with a nominal thickness of 1/8 inch.
2. The topping shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer.
3. The hardener shall be added to the resin and thoroughly dispersed by suitably approved mechanical means. SL Aggregate shall then be added to the catalyzed mixture and mixed in a manner to achieve a homogenous blend.
4. The topping shall be applied over horizontal surfaces using ½ inch “v” notched squeegee, trowels or other systems approved by the Manufacturer.
5. Immediately upon placing, the topping shall be degassed with a loop roller.
6. Colored chips shall be broadcast to excess into the wet material at the rate of 0.1 lbs/sf.
7. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose chips.

C. Broadcast Coat

1. The broadcast coat shall be applied as a double broadcast system as specified by the Architect.
2. The broadcast coat shall be comprised of two components, a resin, and hardener as supplied by the Manufacturer and mixed in the ratio of 2 parts resin to 1 part hardener.
3. The resin shall be added to the hardener and thoroughly mixed by suitably approved mechanical means.
6. The broadcast coat shall be applied over horizontal surfaces using squeegee and back rolled at the rate of 100 sf/gal.
5. Colored chips shall be broadcast to excess into the wet material at the rate of 0.1 lbs/sf.
6. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose chips.

D. Topcoat

1. The first topcoat shall be squeegee applied and back rolled with a coverage rate of 100 sf/gal.
2. The topcoat shall be comprised of a liquid resin and a liquid hardener that is mixed in the ratio of 1 part hardener to 2 parts resin and installed per the manufacturer's recommendations.

E. Topcoat

1. The second topcoat shall be squeegee applied and backed rolled with a coverage rate of 200 sf/gal.
2. The topcoat shall be comprised of a liquid resin and a liquid hardener that is mixed in the ratio of 1 part hardener to 2 parts resin and installed per the manufacturer's recommendations.
3. The finish floor will have a nominal thickness of 1/4 inch.

3.4 FIELD QUALITY CONTROL

A. Tests, Inspection

1. The following tests shall be conducted by the Applicator:
 - a. Temperature
 1. Air, substrate temperatures and, if applicable, dew point.
 - b. Coverage Rates

1. Rates for all layers shall be monitored by checking quantity of material used against the area covered.

3.5 CLEANING AND PROTECTION

- A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.
- B. Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections.

2013/Hybri-Flex A-C Macro

Please recycle - Thank you!