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Addendum # 1 John Walter Smith and Newtown Park Bathroom Renovations

Date of Addendum: 11/8/24

NOTICE TO ALL BIDDERS AND PLANHOLDERS

The Proposal Documents for the above-referenced Project are modified as set forth in this Addendum. The original Proposal Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Proposal Documents. Vendors will take this Addendum into consideration when preparing and submitting a Proposal and shall acknowledge receipt of this Addendum in the space provided in the Proposal Documents.

PROPOSAL SUBMITTAL DEADLINE

The Proposal submittal time has not been changed.

1.0 – ATTACHMENTS

Item	Description
1.1	Dur-A-Flex, Hybri-Flex EC-Micro Chip - Data Sheet
1.2	Dur-A-Flex, Hybri-Flex EC-Micro Chip – Technical Specification

2.0 – QUESTIONS AND ANSWERS

The following questions and answers are provided as a matter of information to clarify issues raised about the Proposal Documents.

Item	Questions and Answers
2.1	Q. Do you have any existing drawings for the bathrooms? A. No
2.2	Q. Are there any new drawings for the bathrooms? A. No
2.3	Q. If bathrooms are to be ADA compliant, typically an architect is involved to determine the applicability and interpret the code for the renovation requirements. If drawings are not available, will that responsibility be placed on the contractor? A. Yes
2.4	Q. Will the flooring need to be a thin-film epoxy, epoxy with flakes, or a high-build quartz broadcast epoxy system? There is a wide range of costs in these systems. A. Per this addendum, the County is requiring the use of the Dur-A-Flex, Hybri-Flex EC-Micro Chip for the flooring. Please see the attached data sheet and technical specifications.
2.5	Q. Please confirm that there is no work to the exterior of the building. Note: Exterior entry doors and frames that go into the bathroom will be removed and replaced (Masonry walls/soffit/roofing system will not be replaced or repaired.) A. No work other than finish work, patching, caulk and paint if needed around new door frames. Only exterior work is the exterior entry doors and frames that go into the bathroom should be replaced.
2.6	Q. Epoxy system on floor, should be an allowance. However, if you want a cost we can come with our spec. and give you a mock floor. A. Per this addendum, the County is requiring the use of the Dur-A-Flex, Hybri-Flex EC-Micro Chip for the flooring. Please see the attached data sheet and technical specifications.

2.7	Q. Epoxy painting on walls should be specified, however a mock up wall or sample should be provided. A. Per this addendum, the County is requiring the use of the Dur-A-Flex, Hybri-Flex EC-Micro Chip for the flooring. Please see the attached data sheet and technical specifications.
2.8	Q. Please confirm it is a requirement to give you a detailed proposal with our bids. A. Yes, provide a detailed/itemized breakdown of your cost proposal for evaluation and budget purposes.
2.9	Q. It is not observed anywhere that this project is wage scale please confirm. A. No it is not a wage scale project.
2.10	Q. Are you really looking for a Payment and Performance Bond? Reference page 14 A. This is required by the county for all construction projects exceeding $100,000 in total contract amount.
2.11	Q. Is the county looking for us to provide builder's risk insurance in our bid? A. This will be addressed in Addendum 2 which should be released early next week.
2.12	Q. Please confirm the owner is procuring the permits if required. Page 12. A. Contractor is to secure all necessary permits.
2.13	Q. Please reiterate in the amendments you want both bathrooms done in 90 days as specified and that they can be worked on at the same time. A. Yes and they can be worked on at the same time.
2.14	Q. Page 19, are LD's going to be truly enforced? A. Yes. The county will work with the Successful Vendor to complete the project within the required timeframe for completion. Any approved requests for additional time would extend the timeline for completion.
2.15	Q. You need (4) unit heaters, (1) for each restroom. If you want an add for this that's fine but I recommend it. A. It will be the responsibility of the contractor to provide necessary heat to complete the project according to product manufactures recommendations.
2.16	Q. When will the notice to proceed be and decision for selecting a contractor. A. The project requires commissioner approval. The 1st meeting after the proposal opening is December 3rd. If the proposals have not been evaluated in time for that meeting, approval will be requested at the December 17th meeting. A notice of award can be sent once the approval to proceed has been granted by the county commissioners.

END OF ADDENDUM

DUR-A-FLEX
INNOVATION FROM THE FLOOR UP

PRODUCT DATA SHEET

95 Goodwin Street
East Hartford, CT 06108

Tel: 800-253-3539 • Fax: 860-528-2802 • www.dur-a-flex.com • contact_us@dur-a-flex.com

HYBRI-FLEX EC

DESCRIPTION

HYBRI-FLEX EC is a decorative chip system composed of an 1/8" POLY-CRETE SL body coat with a decorative chip broadcast. It uses a DUR-A-GLAZE #4 broadcast coat, a DUR-A-GLAZE #4 grout coat, and an ARMOR TOP topcoat yielding a total nominal system thickness of 1/8" - 3/16".

BENEFITS

- VOC Compliant
- ADA Compliant
- Contributes to LEED Credits
- Meets USDA, FDA and CFIA Standards
- Hygienic - Does Not Harbor Bacteria
- High Chemical Resistance
- High Abrasion Resistance
- Self-Priming for Most Applications
- Wide Service Temperature Range
- Can Be Applied To 5-7 Day Old Concrete

LIMITATIONS

This product is best suited for application in temperatures between 60°F and 85°F. Substrate must be clean, sound and dry.

TYPICAL USES

HYBRI-FLEX EC is to be installed over concrete, and is unaffected by thermal cycling.

- Pharmaceutical Plants
- Manufacturing Areas
- Laboratories
- Retail
- Restrooms
- Locker rooms

COLORS

HYBRI-FLEX EC is available with standard and custom blended colors as well as earthstone chips. All are available in two sizes (Macro and Micro). Refer to Chip Blends Selector Chart for available blends.

PACKAGING / STORAGE CONDITIONS

POLY-CRETE SL is available in pre-measured kits that consist of resin, hardener and aggregate. DUR-A-GLAZE #4 is available 1 and 5-gallon cans and 50-gallon drums. ARMOR TOP is available in pre-measured kits. The Decorative chips are available in 10lb or 40lb boxes. HYBRI-FLEX EC components must be stored dry. Do not allow resins to freeze. Do not store near open flame or food. The shelf life of this product is 6 months from ship date in the original unopened container.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Surface must be profiled, clean, dry, oil free and sound. Please refer to the Surface Preparation Guide on our website for more information.

APPLICATION METHOD

POLY-CRETE SL is applied to a properly prepared area at the required thickness using a "V" notched squeegee. The freshly placed material is then loop rolled and the proper sized colored chip blend is broadcast to excess to achieve the desired look. Allow a minimum of 6 hours for the Base Coat to cure before sweeping, sanding or vacuuming. A second chip broadcast is delivered into DUR-A-GLAZE #4. Apply DUR-A-GLAZE #4 to achieve the required texture. Finish with a top coat of ARMOR TOP. See Application Instructions on our website for detailed installation procedures.

GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please contact DUR-A-FLEX for complete three part guide specs.

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the master Drawings and Details guide for actual drawings.

JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

MOISTURE CONCERNS

Normal limits for moisture vapor transmission for Hybri-Flex floor systems are 20 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or 99% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170. Please refer to the Floor Evaluation Guidelines on our website for complete details.

CHEMICAL RESISTANCE

HYBRI-FLEX EC has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, as well as aromatic and aliphatic hydrocarbons. Contact the Dur-A-Flex Technical Department for specific questions about chemicals.

CLEANING

Regular scrubbing will maintain these systems in serviceable condition. However, certain textures and service environments require specific procedures. Please refer to the master Cleaning Guide on our website for more information.

CAUTION

Read, understand and follow Material Safety Data Sheets and Application Instructions for this flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

HYBRI-FLEX EC

TECHNICAL INFORMATION

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	75-80
Water Absorption	ASTM D-570	0.04%
Flammability	ASTM D-635	Self Extinguishing
Critical Radiant Flux	ASTM E-648	Class II
Tensile Strength	ASTM D-638	3,700 psi
Flexural Strength	ASTM D-790	4,700 psi
	BS EN 13892-2	18 N/mm^2
Compressive Strength	ASTM D-695	16,000 psi
	BS EN 13892-2	44 N/mm^2
Indentation	MIL D-3134	.050 inches
Impact Resistance	ASTM D-2794	>160
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Elevated Temperature	MIL D-3134	No slip or flow
Thermal Shock, 50 cycles of immersion in chilled & boiling water	MIL F-52505	No cracking or loss of adhesion
Noise Reduction Coefficient	ASTM C-423	0.05
Taber Abrasion Resistance A&B	ASTM D 4060, 1000 g load, 1000 cycles, CS-17 wheel after full cure	Gloss Finish: w/grit - 4 mg. loss; no grit -10 mg loss. Satin Finish: w/grit - 8 mg loss; no grit - 12 mg loss
Abrasion Resistance	BS EN 13892-4	AR 0.5
Static Coefficient of Friction*	ANSI B101.1	>0.6
Dynamic Coefficient of Friction - Wet*	ANSI A326.3	>0.42
60° Gloss	ASTM D-523	Gloss: 75+/-10 Satin: 50+/-10
VOC Content		<5 g/L

*Dur-A-Flex flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation. Contact your Dur-A-Flex territory sales manager or tech representative for more information on alternative textures, grit/grip additives, or smooth coatings for your specific environment. A sample should always be obtained and tested prior to purchase for any non-slip flooring system.

IMPORTANT!

Before using DUR-A-FLEX products, read and understand its accompanying Safety Data Sheet & Application Instructions for important safety information.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT **DUR-A-FLEX.COM** FOR THE LATEST VERSION

SECTION 09 67 23-RESINOUS FLOORING v2
HYBRI-FLEX EC- Micro Chip

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 chip broadcast and Epoxy broadcast and topcoats.
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 10 years experience in the production, sales, and technical support of epoxy and urethane industrial flooring and related materials.
B. The Applicator shall have experience in installation of the flooring system as confirmed by the 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 ensure that adequate ventilation is available for the work area. This shall include the use of manufacturer's approved fans, smooth bore tubing and closure of the work area.
   4. 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.

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C. Safety Requirements

   1. All open flames and spark-producing equipment shall be removed from the work area prior to commencement of application.
   2. "No Smoking" signs shall be posted at the entrances to the work area.
   3. The Owner shall be responsible for the removal of foodstuffs from the work area.
   4. 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 EC (self leveling chip broadcast), epoxy/aliphatic urethane topcoat seamless flooring system.

1. System Materials:
   a. Topping: Dur-A-Flex, Inc, Poly-Crete SL resin, hardener and SL aggregate.
   b. The broadcast aggregate shall be Dur-A-Flex, Inc. Micro Chip
   c. Broadcast: Dur-A-Flex, Inc. Dur-A-Glaze #4, epoxy based two-component resin.
   d. Groutcoat: Dur-A-Flex, Inc Dur-A-Glaze #4, epoxy-based, two-component resin.
   e. Top coat: Dur-A-Flex, Inc. Armor Top aliphatic urethane 2 component resin with grit.

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 Resin
1. Percent Reactive,	100 %
2. VOC	<4 g/L
3. Water Absorption, ASTM D 570	0.04%
4. Tensile Strength, ASTM D 638	4000psi
5. Coefficient of thermal expansion ASTM D 696,	2 x 10^{-5} in/in/F
6. Flammability ASTM D-635	Self-Extinguishing
7. Flame Spread/ NFPA 101 ASTM E-84	Class A
C. Grout Coat	Dur-A-Glaze 4 Waterclear Resin
1. Percent Reactive,	100 %
2. VOC	<4 g/L
3. Water Absorption, ASTM D 570	0.04%
4. Tensile Strength, ASTM D 638	4000psi
5. Coefficient of thermal expansion ASTM D 696,	2 x 10^{-5} in/in/F
6. Flammability ASTM D-635	Self-Extinguishing
7. Flame Spread/ NFPA 101 ASTM E-84	Class A
D. Topcoat	Armor Top
1. VOC	0 g/L
2. 60 Degree Gloss ASTM D523	75+/-5

3.	Mixed Viscosity, (Brookfield 25ºC)		500 cps
4.	Tensile strength, ASTM D 638		7,000 psi
5.	Abrasion Resistance, ASTM D4060	Gloss	Satin
	CS 17 wheel (1,000 g load) 1,000 cycles	4	8 mg loss with grit
		10	12 mg loss without grit
6.	Pot life @ 70º F 50% RH		2 hours
7.	Dry properties, 70ºF, 50% R.H.		8 hours tack free, 12 hours Dry
	60ºF, 30% RH		12 hours tack free, 18 hours Dry
	80ºF, 70%RH		4 hours tack free, 6 hours Dry
8.	Flash Point PMCC		186ºF
9.	Full Chemical resistance		7 days

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 is 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.
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 chip broadcast.
c. Resin application with chip broadcast.
d. Grout Coat application
e. 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. Chip aggregate shall be broadcast to excess into the wet resin, Micro Chip at a rate of .15 lbs/sf
7. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose chips.

C. Broadcast

1. The broadcast coat resin shall be applied at the rate of 100 sf/gal.
2. The broadcast coat shall be comprised of liquid components, combined at a ratio of 2 parts resin to 1 part hardener by volume and shall be thoroughly blended by mechanical means such as a high speed paddle mixer.
3. Chip aggregate shall be broadcast into the wet resin, Micro Chip at a rate of .15 lbs/sf .
4. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose chips.

D. Grout Coat

1. The grout coat t shall be squeegee applied with a coverage rate of 100 sf/gal.
2. The topcoat shall be comprised of liquid components, combined at a ratio of 2 parts resin to 1 part hardener by volume and shall be thoroughly blended by mechanical means such as a high speed paddle mixer.
3. The grout coat will be back rolled and cross rolled to provide a uniform texture and finish

E. Top Coat

2.
The topcoat with grit shall be roller applier with a coverage rate of 500 sf/gal.
3. The finish floor will have a nominal thickness of 3/16 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.