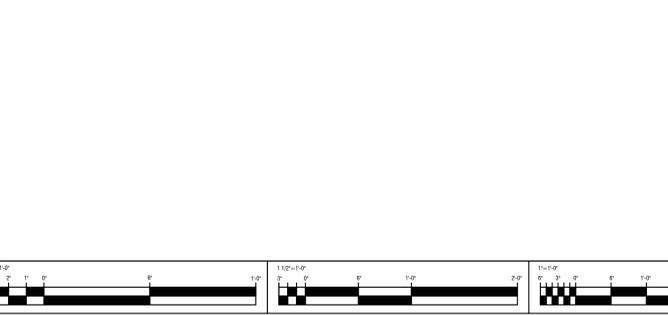


PANELBOARD NAME: EM (NEW)		BUS RATING: 400A		POLES: 42		MINIMUM A/C RATING (A): 2	
PHASEWIRE: 3 PHASE, 4 WIRE + GROUND		MAIN: 400A MCB		MOUNTING: SURFACE		SERVICE: EMERGENCY	
CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR	LOAD (VA)	PHASE LOAD (VA)	LOAD (VA)	LOAD TYPE NO.
1	SPARE						2
2	SPARE						4
3	SPARE						6
4	SPARE						8
5	SPARE						10
6	SPARE						12
7	SPARE						14
8	SPARE						16
9	SPARE						18
10	SPARE						20
11	SPARE						22
12	SPARE						24
13	M P-5	1280 1982	702 3	20 P-3	18 278 3	20 P-4	M 14
14	SPARE						16
15	SPARE						18
16	SPARE						20
17	SPARE						22
18	SPARE						24
19	M P-6	1280 1982	702 3	20 P-4	18 278 3	20 P-4	M 30
20	SPARE						22
21	SPARE						24
22	SPARE						26
23	SPARE						28
24	SPARE						30
25	M B1 & B2	1200 1356	156 1	20 UH-2	150 1	20 UH-2	M 26
26	SPARE						28
27	SPARE						30
28	SPARE						32
29	M AHU-1	792 792	792	1	20 SPARE		M 34
30	SPARE						36
31	SPARE						38
32	SPARE						40
33	M AHU-2	5544 5820	276 3	15 AHU-B	276 3	15 AHU-B	M 38
34	SPARE						40
35	M AHU-2	5544 5820	276 3	15 AHU-B	276 3	15 AHU-B	M 38
36	SPARE						40
37	SPARE						42
38	SPARE						44
39	SPARE						46
40	SPARE						48
41	SPARE						50
42	SPARE						52
TOTAL CONNECTED LOAD (VA):		213.0	83.9	72.9	56.2	(AMPS/PHASE)	#BOLD INDICATES NEW
TOTAL CONNECTED LOAD (VA):		76.727	30.210	26.277	20.240	(VA/PHASE)	

PANELBOARD NAME: EM1 (NEW) SECTION 1		BUS RATING: 400A		POLES: 42		MINIMUM A/C RATING (A): 2	
PHASEWIRE: 3 PHASE, 4 WIRE + GROUND		MAIN: MLO		MOUNTING: FLUSH		SERVICE: EMERGENCY	
CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR	LOAD (VA)	PHASE LOAD (VA)	LOAD (VA)	LOAD TYPE NO.
1	TEL	1000 2000	1000	2000			2
2	TEL	1000 2000	1000	2000			4
3	SPARE						6
4	SPARE						8
5	SPARE						10
6	WATER RM SP-2	500 1500	1000	1500			N 10
7	BAY GARBAGE DISPOSAL	500 1500	1000	1500			N 12
8	RECEP	720 720	1920	1200			N 14
9	GUH-1/GUH-1 CONTROLS	200 200	1400	1200			N 16
10	COMPANY OFC 106	720 720	1920	1200			N 18
11	APPARATUS BAY 105	720 1272	552 3	20 COMPRESSOR			N 20
12	APPARATUS BAY 105	720 1272	552 3	20 COMPRESSOR			N 22
13	SPARE						24
14	SPARE						26
15	SPARE						28
16	SPARE						30
17	SPARE						32
18	SPARE						34
19	APPARATUS BAY 105	720 1520	829	800			C 30
20	APPARATUS BAY 105	720 1520	829	800			C 32
21	APPARATUS BAY 105	720 1520	829	800			C 34
22	UTILITY TUNNEL SP-3	500 1300	800	1300			C 36
23	EIG-LTS & RECEP	1000 1180	1800	1180			N 38
24	EIG BLOCK HEATER	1500 2700	1500	2700			N 40
25	EIG BATTERY CHARGER	1500 1812	312 1	20 UH-1			M 42
TOTAL CONNECTED LOAD (VA):		28,192	7,892	11,067	9,433	(VA/PHASE)	#BOLD INDICATES NEW
TOTAL CONNECTED LOAD (VA):		78.3	64.1	92.2	78.6	(AMPS/PHASE)	
LOAD FROM SUB-FEED PANEL (VA):		134.8	126.7	122.0		(VA/PHASE)	

PANELBOARD NAME: EM1 (NEW) SECTION 2		BUS RATING: 400A		POLES: +42			
PHASEWIRE: 3 PHASE, 4 WIRE + GROUND		MAIN: MLO		MOUNTING: FLUSH		SERVICE: NORMAL	
CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR	LOAD (VA)	PHASE LOAD (VA)	LOAD (VA)	LOAD TYPE NO.
1	READER PANEL	500 1000	500	1000			N 44
2	RECEPTACLE	720 1220	500	1220			N 46
3	LIGHTS	460 660	200	660			N 48
4	SPARE						50
5	BASEMENT LAN ROOM	1200 2100	1200	2100			R 52
6	BASEMENT LAN ROOM	900 2100	1200	2100			R 54
7	BASEMENT LAN ROOM	900 2100	1200	2100			R 56
8	BASEMENT LAN ROOM	900 2100	1200	2100			R 58
9	BASEMENT LAN ROOM	900 2100	1200	2100			R 60
10	BASEMENT LAN ROOM	900 2100	1200	2100			R 62
11	SPARE						64
12	SPARE						66
13	COMPRESSOR	552 1752	1200	1752			N 68
14	SPARE						70
15	SPARE						72
16	DOOR OPERATOR - 5hp	2010 4020	2010	4020			M 74
17	SPARE						76
18	SPARE						78
19	M DOOR OPERATOR	2010 4020	2010	4020			M 80
20	SPARE						82
21	SPARE						84
TOTAL CONNECTED LOAD (VA):		46,056	16,192	15,212	14,652	(VA/PHASE)	#BOLD INDICATES NEW
TOTAL CONNECTED LOAD (VA):		127.8	134.8	126.7	122.0	(AMPS/PHASE)	
LOAD FROM SUB-FEED PANEL (VA):						(VA/PHASE)	



PANELBOARD NAME: EM2 (NEW)		BUS RATING: 225A		POLES: 42		MINIMUM A/C RATING (A): 2	
PHASEWIRE: 3 PHASE, 4 WIRE + GROUND		MAIN: 225A MCB		MOUNTING: FLUSH		SERVICE: EMERGENCY	
CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR	LOAD (VA)	PHASE LOAD (VA)	LOAD (VA)	LOAD TYPE NO.
1	BATTALION OFC 213	120 2300	1653	1580	1	20 2ND FLR LIGHTING	C 2
2	BATTALION OFC 213	120 2300	1653	1580	1	20 2ND FLR LIGHTING	C 4
3	LAN RM217	1500 2058	2456	956	1	20 3RD FLR LIGHTING	C 6
4	LAN RM217	1500 2058	2456	956	1	20 3RD FLR LIGHTING	C 8
5	CONF 305	1000 2200	1200	1000	1	20 2ND FLR LIGHTING	C 10
6	CONF 305	1000 2200	1200	1000	1	20 2ND FLR LIGHTING	C 12
7	COPIER/PRINTER 308	1500 1500	1500	1500	1	20 SPARE	14
8	COPIER/PRINTER 308	1500 1500	1500	1500	1	20 SPARE	16
9	CONF 310/311/312	1000 1080	1080	1000	1	20 SPARE	18
10	CONF 310/311/312	1000 1080	1080	1000	1	20 SPARE	20
11	CONF 314	720 720	720	720	1	20 SPARE	22
12	CONF 316	1000 1000	1000	1000	1	20 SPARE	24
13	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 26
14	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 28
15	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 30
16	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 32
17	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 34
18	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 36
19	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 38
20	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 40
21	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 42
22	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 44
23	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 46
24	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 48
25	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 50
26	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 52
27	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 54
28	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 56
29	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 58
30	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 60
31	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 62
32	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 64
33	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 66
34	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 68
35	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 70
36	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 72
37	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 74
38	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 76
39	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 78
40	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 80
41	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 82
42	CONF 317/318/320	1000 1620	540 1	20 SYSTEM FURNITURE			R 84
TOTAL CONNECTED LOAD (VA):		34,985	13,988	12,317	6,880	(VA/PHASE)	#BOLD INDICATES NEW
TOTAL CONNECTED LOAD (VA):		97.1	116.5	102.6	72.3	(AMPS/PHASE)	

PANELBOARD NAME: LBA (NEW)		BUS RATING: 100A		POLES: 42		MINIMUM A/C RATING (A): 2	
PHASEWIRE: 3 PHASE, 4 WIRE + GROUND		MAIN: 100A MCB		MOUNTING: SURFACE		SERVICE: NORMAL	
CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR	LOAD (VA)	PHASE LOAD (VA)	LOAD (VA)	LOAD TYPE NO.
1	REC	720 1456	736	1456			C 2
2	REC	720 1456	736	1456			C 4
3	REC	720 1456</					

Attachment 2

Form of Offer Letter and Bid Form

Mr. Jonathan Kayne
[DATE]
Page 1

Attachment B

[Contractor's Letterhead]

[Insert Date]

District of Columbia Department of General Services
2000 14th Street, NW, 8th Floor
Washington, DC 20009

Attn: Mr. Jonathan Kayne
Interim Director/Chief Contracting Officer

Reference: Request for Proposals (RFP)
DCAM-15-CS-0130 Major Renovation and Modernization of FEMS Engine
House No.16

Dear Mr. Kayne:

On behalf of [INSERT NAME OF OFFEROR] (the "Offeror"), I am pleased to submit this proposal in response to the Department of General Services' (the "Department" or "DGS") Request for Proposal (the "RFP") for Major Renovation and Modernization of FEMS Engine House No.16. The Offeror has reviewed the RFP and the attachments thereto, any addenda thereto, and the proposed Form of Contract (collectively, the "Proposal Documents") and has conducted such due diligence and analysis as the Offeror, in its sole judgment, has deemed necessary in order to submit its Proposal in response to the RFP. The Offeror's Proposal and the Lump Sum Price are based on the Proposal Documents as issued and assume no material alteration of the terms of the Proposal Documents. (Collectively, the Proposal and the Lump Sum Price with Allowances are referred to as the "Offeror's Proposal".)

The Offeror's Proposal is as follows:

CLIN	DESCRIPTION	LUMP SUM PRICE w/ Allowances 1, 2, and 3
0001	Major Renovation and Modernization of FEMS Engine House No.16 Lump Sum Price w/ Allowance 1, 2, and 3 (From Bid Form)	\$ _____

LUMP SUM PRICE w/ ALLOWANCES 1, 2, and 3 IN WORDS:

When requested by the Contracting Officer, Offeror's shall deduct from the lump sum price CLIN 0001 the price for the deductive alternate below:

DEDUCT ALT	DESCRIPTION	PRICE
0101	35% CBE Participation: Base Bid: CBE Participation in accordance with all the requirements of the Request For Proposal (Solicitation Number DCAM-15-CS-0130), Section C Economic Inclusion. Alternate: In Request for Proposal (Solicitation Number DCAM-15-CS-0130), Section C - Economic Inclusion, replace all references to "50%" with "35%".	<\$ _____ >

SCHEDULE OF UNIT PRICING

Offerors shall submit unit pricing for the following item. Unit pricing shall be valid for the complete duration of the project:

Unit Cost for Allowance	DESCRIPTION	Price Per Sq. Ft.
1002	Include the sum of \$30,000 for cleaning exterior masonry: Include all exterior brick and masonry as specified in Section 040120 "Maintenance of Unit Masonry" and as shown on Drawings.	\$ _____

Unit Cost for Allowance	DESCRIPTION	Price Per Sq. Ft.
1003	Include the sum of \$10,000 for repointing and repairing of masonry damaged from previous exterior accessories or other items as specified in Section 040120 "Maintenance of Unit Masonry" and as shown on Drawings	\$ _____

The Offeror, for CLIN 0001, must submit for each of the components of work (Divisions) listed on the Price Breakdown Form (Exhibit 1), the price of each Division Component. The sum of all the prices for each Division Component must equal the Lump Sum Price for CLIN 0001. In the event of discrepancies between or among the Lump Sum Price and the Price Breakdown of each Division Component, the Lump Sum Price shall control.

The Offeror acknowledges and understands that the Lump Sum Price is a firm, fixed price and intended to be Offeror's sole compensation for the services required under the contract and should include sufficient funding for all of the Offeror's costs associated with the work, including, but not limited to, labor, tools and equipment, materials and supplies, and overhead, insurance and profit. Failure to submit complete the Price Breakdown for CLIN 0001 shall not

to any extent qualify the Offeror's commitment to complete the entire project at the above stated Lump Sum Price. The District may use the Price Breakdown as a guide during contract administration

The Offeror's Proposal is based on and subject to the following conditions:

1. The Offeror agrees to hold its proposal open for a period of at least one hundred twenty (120) days after the RFP closing date.
2. Assuming the Offeror is selected by the Department and subject only to the changes requested in paragraph 5, the Offeror agrees to enter into a contract with the Department on the terms and conditions described in the Proposal Documents within ten (10) days of the notice of the award.
3. Both the Offeror and the undersigned represent and warrant that the undersigned has the full legal authority to submit this Proposal form and bind the Offeror to the terms of the Offeror's proposal. The Offeror further represents and warrants that no further action or approval must be obtained by the Offeror in order to authorize the terms of the Offeror's proposal.
4. The Offeror and its principal team members hereby represent and warrant that they have not: (i) colluded with any other group or person that is submitting a proposal in response to the RFP in order to fix or set prices; (ii) acted in such a manner so as to discourage any other group or person from submitting a proposal in response to the RFP; or (iii) otherwise engaged in conduct that would violate applicable anti-trust law.
5. The Offeror's proposal is subject to the following requested changes to the Form of Contract: [INSERT REQUESTED CHANGES. OFFERORS ARE ADVISED THAT THE CHANGES SO IDENTIFIED SHOULD BE SPECIFIC SO AS TO PERMIT THE DEPARTMENT TO EVALUATE THE IMPACT OF THE REQUESTED CHANGES IN ITS REVIEW PROCESS. GENERIC STATEMENTS, SUCH AS "A MUTUALLY ACCEPTABLE CONTRACT" ARE NOT ACCEPTABLE. OFFERORS ARE FURTHER ADVISED THAT THE DEPARTMENT WILL CONSIDER THE REQUESTED CHANGES AS PART OF THE EVALUATION PROCESS.]
6. The Offeror hereby certifies that neither it nor any of its team members have entered into any agreement (written or oral) that would prohibit any contractor, subcontractor or subconsultant that is certified by the District of Columbia Office of Department of Small and Local Business Enterprises as a Local, Small, Resident Owned or Disadvantaged Business Enterprise (collectively, "LSDBE Certified Companies") from participating in the work if another company is awarded the contract.
7. This Offer Letter Form and the Offeror's Proposal are being submitted on behalf of [INSERT FULL LEGAL NAME, TYPE OF ORGANIZATION, AND STATE OF FORMATION FOR THE OFFEROR].

Mr. Jonathan Kayne
[DATE]
Page 4

Sincerely,

By: _____
Name: _____
Its: _____
Date: _____

Exhibit 1
BID FORM

CSI DIVISION NO.	DESCRIPTION	PRICE OF EACH DIVISION COMPONENT
Div. 01	General Requirements	
Div. 02	Existing Conditions (incl. abatement/demo. of exist. structure)	
Div. 03	Concrete	
Div. 04	Masonry	
Div. 05	Metals	
Div. 06	Woods and Plastics	
Div. 07	Thermal and Moisture Protection	
Div. 08	Openings	
Div. 09	Finishes	
Div. 10	Specialties	
Div. 11	Equipment	
Div. 12	Furnishings	
Div. 13	Special Construction	
Div. 14	Conveying Systems	
Div. 21	Fire Suppressions	
Div. 22	Plumbing	
Div. 23	Heating, Ventilation and Air Conditioning	
Div. 26	Electrical	
Div. 27	Communications	
Div. 28	Electronic Safety and Security	
Div. 32	Exterior Improvements	
Div. 33	Utilities	
CLIN 0001	LUMP SUM PRICE	\$
Allowance 1001	FF&E	\$150,000.00
Allowance 1002	Cleaning Exterior Masonry	\$30,000.00
Allowance 1003	Repointing and Repairing of Masonry	\$10,000.00
	LUMP SUM PRICE w/ Allowances 1,2, and 3.	\$

DIVISION means a discrete component of the work for which a separate price is requested. The sum of all components in the "Bid Form" must equal the Lump Sum Price.

Attachment 3

Terrazzo Flooring Substitute



TERRAZZCO®

1818 University Commercial Place
Charlotte, NC 28213

www.terrazzco.com

Date: June 11, 2015

Proposed Product: TERRAZZCO® Brand Products/ Terrazzco Epoxy Terrazzo

Re: Comparison Table

	Tensile Strength	Compressive Strength	Flammability	Coefficient of Linear Thermal Expansion	Bond Strength
TERRAZZCO® Brand Products	9,890 psi	13,200 psi	Self-Extinguishing <25"	17.4×10^{-6} in./in./°F	400 psi (100% concrete failure)
Standard Market Specification Guidelines	Min. 3,000 psi	Min. 10,000 psi	Self-Extinguishing <25"	25×10^{-6} in./in./°F maximum	Min. 300 psi (100% concrete failure)
Project-Specific Specification Guidelines	3,000 psi	10,000 psi	Self-Extinguishing <25"	25×10^{-6} in./in./°F	Not specified



TERRAZZO®

1818 University Commercial Place
Charlotte, NC 28213
www.terrazzo.com

Date: June 11, 2015
Project: FEMS Engine 16 Renovation
Location: Washington, DC

Proposed Manufacturer/ Product: Concord Terrazzo Co., Inc./ Terrazzo Brand Products

Reasons for not using specified items:

- TERRAZZO® Epoxy Resin Matrix has yielded test results that comply and exceed the NTMA guidelines.
 - The owner will be getting a product equal or superior to the ones specified at a more competitive price.
- TERRAZZO® Epoxy Resin incorporates rapidly renewable materials.
 - Other products on the market do not.
 - There are more LEED credits possible if LEED certification is being sought.
- Concord Terrazzo Co., Inc., the proposed manufacturer, is able to supply precast products using the same material as the poured-in-place terrazzo floor.
 - There will be better quality control than having to outsource the precast fabrication to another manufacturer.
 - There will be less lead time required for fabrication.
 - The precast epoxy terrazzo product will match the poured-in-place floor since both the floor and precast will be fabricated from the same material.
 - All materials would be coming from one central source.
- There will be more competition during the bid process.
 - Approval of another manufacturer during the bid process will cause more competition in pricing of materials.
- There is possible expedition of schedule due to close proximity of proposed manufacturer.
 - Concord Terrazzo Company, is located less than 330 miles from the jobsite as the crow flies while the specified product manufacturers are located further away.
 - There will be less time required for shipment and delivery of material with the use of Terrazzo Brand Products by Concord Terrazzo Company.



TERRAZZO®

1818 University Commercial Place
Charlotte, NC 28213

www.terrazzo.com

Project Name & Location:

Ft. Myers Beach Library
2755 Estero Blvd.
Fort Myers Beach, FL 33931

General Contractor:

Manhattan Kraft Const., Inc.
3520 Kraft Road
Naples, FL 34105
P: 239-643-6000
PM: Jim Grant

Architect:

Harvard Jolly Architecture
2714 Dr. Martin Luther King Jr. St. N.
St. Petersburg, FL 33704
P: 727-896-4611

Job Description:

Completed: 2011
Area: 7,587 SF
Scope: Epoxy Terrazzo

Project Name & Location:

WSSC School of Nursing
801 Main Street NW
Hanceville, AL 35077

General Contractor:

Doster Construction Co., Inc.
2100 International Park Drive
Birmingham, AL 35243
P: 205-443-3800
PM: John Lankford

Architect:

Williams Blackstock Architects
2204 1st Avenue South Ste 200
Birmingham, AL 35233
P: 205-252-9811

Job Description:

Completed: 2013
Area: 7,513 SF
Scope: Epoxy Terrazzo

Project Name & Location:

James Simons School
741 King Street
Charleston, SC 29223

General Contractor:

M. B. Kahn Const. Co.,
101 Flintlake Road
Columbia, SC 29223
P: 803-736-2950
PM: Scott Spigener

Architect:

Thomas & Denzinger
73 ½ State Street
Charleston, SC 29403
P: 843-577-5373

Job Description:

Completed: 2013
Area: 1,496 SF
Scope: Epoxy Terrazzo

Project Name & Location:

CDIA East Terminal Expansion
5501 Josh Birmingham Parkway
Charlotte, NC 28208

General Contractor:

Edison Foard, Inc.
3900 Rose Lake Drive
Charlotte, NC 28217
P: 704-329-8000
PM: Rusty Setzer
C: 704-491-2530

Architect:

DAS Architects, Inc.
101 W. Worthington Ave
Charlotte, NC 28203
P: 704-333-3360

Job Description:

Completed: 2011
Area: 12,990 SF
Scope: Epoxy Terrazzo

Project Name & Location:

MUHA N. Tower RR Renov.
171 Ashley Ave
Charleston, SC 29403

General Contractor:

Chastain Construction, Inc.
623 Meeting Street
Charleston, SC 29403
P: 843-722-4555
PM: Bryan Finch
C: 843-725-8346

Architect:

Stevens & Wilkinson, Inc.
1501 Main Street
Columbia, SC 29201
P: 843-722-4555

Job Description:

Completed: 2013
Area: 1,200 SF
Scope: Epoxy Terrazzo

Project Name & Location:

DOS Building 644 Renov
1999 Dyness Ave
North Charleston, SC 29405

General Contractor:

US&S, Inc.
50 Grand Avenue
Greenville, SC 29607
P: 864-233-8035
PM: Dan Smith

Architect:

Einhorn Yafee Prescott
1000 Potomac Street, NW
Washington, DC 20007
P: 202-471-5000

Job Description:

Completed: 2012
Area: 4,500 SF
Scope: Epoxy Terrazzo



TERRAZCO®

1818 University Commercial Place
Charlotte, NC 28213
www.terrazco.com

Project Name & Address:

One Reston Overlook
12011 Sunset Hills Road
Reston, VA 20190

General Contractor:

Harvey-Cleary Builders
207-A Perry Pkwy Ste. 1
Gaithersburg, MD 20877
P: 301-519-2288
PM: Kelly Wahl
C: 240-480-5486

Architect:

DBI Architects, Inc.
1984 Isaac Newton Sq. W. Ste. 400
Reston, VA 20190
P: 703-787-0862

Job Description:

Completed: 2011
Area: 3,221 SF
Scope: Epoxy Terrazzo

Project Name & Address:

ASU Reich College Bldg.
151 College Street
Boone, NC 28608

General Contractor:

Hickory Construction, Inc.
1728 9th Ave. NW
Hickory, NC 28601
P: 828-322-9234
PM: Graham Honeysuckle

Architect:

LS3P Architects
227 W. Trade Street Ste. 700
Charlotte, NC 28202
P: 704-333-6686

Job Description:

Completed: 2010
Area: 8,109 SF
Scope: Epoxy Terrazzo

Project Name & Address:

Dawson Cty Courthouse
151 Shoals Creek Road
Dawsonville, GA 30534

General Contractor:

Winter Construction Co.
191 Peachtree St. Ste 2100
Atlanta, GA 30308
P: 404-588-3300
PM: Heather Williams

Architect:

Rosser International
524 West Peachtree St. NW
Atlanta, GA 30308
P: 404-876 3800

Job Description:

Completed: 2011
Area: 27,000 SF
Scope: Epoxy Terrazzo

Project Name & Address:

BSU Performing Arts Ctr
14000 Jericho Park Rd
Bowie, MD 20715

General Contractor:

Holder Construction
3333 Riverwood Pkwy Ste 400
Atlanta, GA 30339
P: 770-988-3000

Architects:

EYP Architects
1000 Potomac St. NW
Washington, DC 20007
P: 202-471-5000

Job Description:

Completed: 2011
Area: 9,012 SF
Scope: Epoxy Terrazzo

Project Name & Address:

UA Mary Burke Dining Hall
920 Hackberry Lane
Tuscaloosa, AL 35401

General Contractor:

Hall-Taylor Construction Co., Inc.
5126 McFarland Blvd East
Tuscaloosa, AL 35405
P: 205-758-8265
PM: Roger Taylor or Sharon May

Architect:

TurnerBatson Arch., PC.
1950 Stonegate Dr., Ste 200
Birmingham, AL 35242
P: 205-403-6201

Job Description:

Completed: 2013
Area: 4,000 SF
Scope: Epoxy Terrazzo

Project Name & Address:

UA Russell Hall
504 University Blvd.
Tuscaloosa, AL 35401

General Contractor:

W. G. Yates Construction
4401 Northside Pkwy Ste 700
Atlanta, GA 30327
P: 770-399-1919
PM: Brad Bellman

Architect:

TurnerBatson Arch., PC.
1950 Stonegate Dr., Ste 200
Birmingham, AL 35242
P: 205-403-6201

Job Description:

Completed: 2012
Area: 3,839 SF
Scope: Epoxy Terrazzo

TERRAZZCO® EZpour Epoxy 158

DESCRIPTION

TERRAZZCO® EZpour Epoxy #158 is a pigmented, 100% solid (VOC free), two-component epoxy resin system. When combined with an extensive variety of decorative aggregates and poured in place to 1/4" or 3/8" nominal thickness, it yields a highly decorative terrazzo flooring system. TERRAZZCO® EZpour Epoxy #158 provides incredible sustainability and high resistance to wearing while also being resistant to bacterial growth. The product also has the lowest life cycle cost of any flooring system available. Crack-resistant installations of TERRAZZCO® EZpour Epoxy #158 can be achieved when installed in conjunction with a TERRAZZCO® moisture vapor mitigation and flexible membrane FM #528.

ADVANTAGES

- Utilizes renewable resource components
- VOC free for a healthier environment
- Contributes to higher LEED® credits compared to other epoxy systems on the market
- Manufactured and Supplied from Southeast United States
- Lowest life-cycle costing flooring system available
- Extensive color capabilities allow for unlimited design variations
- Self-priming, no primer needed

CONSIDERATIONS

- Substrate temperature must be between 55° and 90° F before, during and 72 hours after installation. The surface temperature of the concrete must be 5° above the dew point to ensure proper curing of the terrazzo floor
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials. The concrete surface must be prepared by shot blasting or by grinding
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the terrazzo topping
- An active vapor barrier must be present under concrete slab
- Material should be stored in a temperature and humidity controlled environment
- Material is not designed to be used as a moisture vapor barrier

TYPICAL USES

TERRAZZCO® EZpour Epoxy #158 is perfect for almost any surface where a uniformly even, highly durable product is desired. TERRAZZCO® EZpour Epoxy #158 provides the best in aesthetic value and innovation making it ideal for commercial, industrial, and institutional uses. TERRAZZCO® EZpour Epoxy #158, when integrated with marble or granite aggregate resists heavy industrial wear and chemical corrosion making it perfect for pharmaceutical and chemical plants. TERRAZZCO® EZpour Epoxy #158 is the superior decision for educational institutions, medical centers, sports facilities, and institutions because of its hygienic, smooth surface that is effortless to clean.

APPLICATION

Surface Preparation: All work should be performed by trained and experienced contractors or maintenance personnel. Concrete surface and air temperature must be a minimum of 55°F during installation and cure. Concrete surface temperature must be 5° above the dew point to ensure proper curing of the terrazzo floor.

Consult installer for job specific slab conditions for Terrazzco® epoxy terrazzo flooring system installation. Concrete surface must be free of dirt, waxes, curing agents, and any other foreign materials. Surfaces should be prepared by grinding or shot blasting and any repairs to concrete must be made prior to applying this product. An active vapor barrier under the concrete slab is required. Concrete slabs receiving resinous terrazzo flooring must be tested for relative humidity according to ASTM F-2170 (Relative Humidity in



Concrete Floor Slabs using in situ probes). Measurements must be made using Wagner Electronics Rapid RH® 4.0 Smart Sensor and Rapid RH® Easy Reader. RH reading below 79% do not require the application of a vapor moisture mitigation system. RH readings in the range of 80 – 89% require the use of vapor shield MVS #601, and RH reading 90% and above require vapor shell MVB #188. A record sheet should be filled out that includes the ambient temperature and humidity during testing along with the substrate temperature and relative humidity. The test must be conducted at end user environmental conditions. Any deviation from this procedure will result in the warranty being voided.

TECHNICAL DATA

Cured Resin Properties:

Property	Test Method	Result	NTMA Requirement
Hardness	ASTM D-2240 using Shore D Durometer	83.5	60 – 85
Tensile strength	ASTM D-638 Specimen made using "C" die listed in ASTM D-412	9,890 psi	3,000 psi min.
Compressive Strength	ASTM D-695 Specimen B cylinder	13,200 psi	10,000 psi min.
Flexural Strength	ASTM D-790	4,500 psi	NA
Chemical Resistance	ASTM D-1308	<i>No Deleterious Effects:</i> Distilled Water Mineral Water 10% Sodium Hydroxide Isopropanol 10% Hydrochloric Acid .025 Detergent Solution 5% Acetic Acid Ethanol 1% Soap Solution 30% Sulfuric Acid	<i>No Deleterious Effects:</i> Distilled Water Mineral Water 10% Sodium Hydroxide Isopropanol 10% Hydrochloric Acid .025 Detergent Solution 5% Acetic Acid Ethanol 1% Soap Solution 30% Sulfuric Acid

System Performance:

Property	Test Method	Result	Requirement
Flammability	ASTM D-635	Self-extinguishing <.25"	Self-extinguishing .25" max. burning
Bond Strength	ACI COM 403 Bulletin 59-43 (pages 1139 - 1141)	400 psi (100% concrete failure)	300 psi (100% concrete failure)
Thermal Coefficient of Linear Expansion	ASTM-D-696	17.4 x 10 ⁻⁶ / °F	25 x 10 ⁻⁶ / °F max.

WORKING DATA

Working (Pot) Life	40 - 50 min. @ 75°F
Full Set Time	18 - 24 hours @ 75°F
Full Cure & Maximum Performance	5 - 10 days

COVERAGE

TERRAZZCO® EZpour Epoxy #158 Thickness	Coverage area per mixed gallon
3/8 in	9 – 10 sq.ft.
1/4 in	11 – 12 sq.ft.

MATERIALS NEEDED

- Mineral spirits or isopropyl alcohol for cleaning equipment.
- Mixing equipment appropriate for work site.

MIXING & APPLICATION

Premix TERRAZZCO® EZpour Epoxy #158 resin part A before using. Mix five (5) parts of TERRAZZCO® #158 resin part A with one (1) part of TERRAZZCO® hardener #158 Part B by volume with a slow speed drill until liquids are completely blended. Introduce the appropriate amount of aggregate and continue to mix. For complete installation instructions, contact your TERRAZZCO® representative.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with isopropyl alcohol or mineral spirits before the epoxy hardens. Failure to do so will cause the epoxy system to harden on the tools and equipment making it very difficult to remove. Consult MSDS for safety and health precautions.

SAFETY

Refer to the MSDS prior to use. Federal, state, and local guidelines must be followed during the handling and installation of these materials. Any excess material should be disposed of according to applicable federal, state, and local codes.

MATERIAL STORAGE

Materials should be stored in a temperature and humidity controlled environment and out of direct sun light. Keep resins and hardeners separated from each other until ready for use. Materials should be kept away from sources of ignition. Materials have a one year shelf life when stored at temperatures between 50° and 90 °F and in their original container.

PACKAGING

TERRAZZCO® EZpour Epoxy #158 resin part A is packaged in 5 gallon pails or 55 gallon drums. TERRAZZCO® EZpour #158 hardener part B is packaged in one gallon cans, 5 gallon pails or 55 gallon drums.

MAINTENANCE

Terrazzo flooring made with TERRAZZCO® EZpour Epoxy #158 is simply cleaned with neutral soaps or detergents. Regular mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is one of many top-coat finish options. Long periods of heavy foot traffic may necessitate reapplication of a finish coat. We also advise the owner to consult the National Terrazzo & Mosaic Association guidelines for maintaining terrazzo surfaces.

COLOR & AVAILABILITY

TERRAZZCO® EZpour Epoxy #158 provides the interior designer with unlimited and intricate design possibilities utilizing a vast spectrum of colors. When coupled with zinc, aluminum, or plastic design strips and an immense array of aggregate options, TERRAZZCO® EZpour Epoxy #158 will provide lasting, unlimited variations of hues, designs, and configurations. Colors will not lose brilliance or fade. Personalized colors and custom color matching is available upon request.

TECHNICAL SERVICE

TERRAZZCO® authorized representatives provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair, care and protection of concrete surfaces. TERRAZZCO® authorized representatives are available to assist customers at any time. For more information on TERRAZZCO® products, contact the manufacturer and distributor, Concord Terrazzo Inc. at (704) 921-4928.

WARRANTY: TERRAZZCO® products are warranted for a period of one (1) year. Warranty provides that the product will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of TERRAZZCO® literature. If any product fails to meet this warranty, the liability of manufacturer will be limited to replacement of any non-conforming material if notice of such non-conformity is given to manufacturer within (1) one year of delivery of materials. Manufacturer may in its discretion refund the price received by them in lieu of replacing the material. No customer or distributor of TERRAZZCO® products is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of manufacturer. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Manufacturer reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. MANUFACTURER OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. TERRAZZCO'S WARRANTY IS VOIDED IF PAYMENT FOR PRODUCT IS NOT RECEIVED IN FULL. LEED® is a registered trademark of the Green Building Council.

MANUFACTURER AND DISTRIBUTOR



**CONCORD TERRAZZO
COMPANY, INC.**

1818 UNIVERSITY COMMERCIAL PLACE
CHARLOTTE, NC 28213
TEL: 704.921.4928
FAX: 980.321.5220