Alaska Department of Environmental Conservation
Division of Environmental Health

SMALL REQUEST FOR PROPOSAL

Environmental Health Lab Flood Damage Repair

RFP 180000040

Date of Issue: September 28, 2017

1. Background

An equipment failure that recently occurred resulted in water damage to five rooms and portions of two corridors in the State of Alaska, Department of Environmental Conservation (DEC) Environmental Health Lab (EHL). Immediately following the flood, the area was dried out and the equipment failure was addressed. The repair and restoration services that shall be provided by this RFP are described herein.

The contractor awarded the contract resulting from this RFP shall manage and perform all aspects of the scope of work as noted herein and within its proposal. The scope of work shall be performed on time and on budget. The anticipated budget for this RFP is a not to exceed amount of $25,000. Funding for the contract resulting from this RFP is subject to legislative appropriation

Any requested change to the time, scope, or cost of the contract resulting from this RFP must be agreed upon and executed through a written amendment to the contract. DEC reserves the right to request documentation that supports and justifies an increase to the cost of the contract, and reserves the right in good faith to either accept or reject any such request. Any conflicting technical requirements will be resolved between the contractor and DEC in a timely manner throughout the duration of the contract.

1.01 General Requirements

The contractor shall comply with each of the following:

1. Adherence with all applicable federal, state, and local laws and ordinances.

2. Work shall be performed by qualified personnel, experienced with work of the nature described herein.

3. Proposals that exceed the budget are subject to either rejection by DEC or contract negotiation, at DEC's sole discretion. DEC reserves the right to not accept proposals that are not in the best interest of the state.

4. Should the effort of the contract resulting from this RFP, within this scope of work, develop into more than originally anticipated, DEC reserves the right to increase the time, scope, or cost of the contract as agreed upon and memorialized through a written amendment.

5. Cover Letter: In order to be responsive, the Contractor must have 3 years of successful documented experience working on commercial construction and epoxy projects included in a cover letter.

1.02 Repairs to the EHL

The Contractor shall make all repairs to the lab as described herein. This shall include, without limitation, to the following:

- Restore each damaged room and hall to like-new condition.
- Provide all materials and equipment for repairs.
- Ensure all materials match the original materials and are safe and appropriate for use in the laboratory environment. All paint and installations shall match the existing room space surfaces.
- Clean up, remove, and dispose of all repair-related waste on a daily basis.

1.02.01 Scope of Work

The Contractor shall repair and restore each damaged room as shown in Attachment 1 by accomplishing the following without limitation:

1) Corridor 140, starting at corridor 150 to the southern end of corridor 140.
   a) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
   b) Damaged trim panels shall be repaired or replaced.
   c) Damaged rubber cove base shall be replaced with new matching cove base.
   d) All damaged ceiling tiles shall be replaced.
2) Room 141, an extension of corridor 140
   a) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
   b) All damaged ceiling tiles shall be replaced.

   c) Damaged rubber cove base shall be replaced with new matching cove base.
3) Corridor 150, East wall
   a) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
4) Room 145, all walls and hard lid ceiling
   a) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
   b) Damaged rubber cove base shall be replaced with new matching cove base.
5) Room 148, West wall
   a) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
   b) Damaged rubber cove base shall be replaced with new matching cove base.
6) Room 144, all walls and ceiling
   a) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
   b) Damaged rubber cove base shall be replaced with new matching cove base.
   c) All damaged ceiling tiles shall be replaced.
7) Room 147, West wall and approximately 6 feet of ceiling adjacent to the West wall
   a) Ceiling and walls shall be repaired using the same epoxy coating system as described and shown in Attachment 2.
   b) All damaged areas of sheetrock shall be repaired or replaced to be filed, sanded, textured, and painted to match the undamaged wall surfaces.
   c) Damaged rubber cove base shall be replaced with new matching cove base.

The Contractor shall provide at their cost all materials, supplies, and equipment to complete the repairs and restoration.

The Contractor shall install matching materials including, but not limited to, ceiling tiles, trim, paint, and trim.

1.02.02 Schedule

The Contractor shall coordinate the repair work schedule with the operational schedule and security policies of the laboratory according to Section 3 Point of Contact to include, without limitation, the following:

1) A mandatory onsite building safety/security briefing, estimated less than an hour, will be held to include all Contractor workers involved in the

project on the first day of Contractor operations onsite.
2) The Contractor's Project Manager will attend a weekly planning meeting, estimated less than an hour each week, with lab management to coordinate the repair work schedule with the operational schedule of the laboratory.

1.02.03 Safety

The Contractor shall ensure that the job site is safe for all personnel to include, without limitation, the following:

1) The job site shall have no slip nor trip hazards.
2) The Contractor shall provide and establish appropriate ventilation to the job site.
3) The Contractor shall remove debris from the job site on a daily basis in order to maintain a clean, orderly, and safe work area.
3) All construction debris shall be removed from the laboratory property by the Contractor by the end of each business day.
4) All Contractor workers shall sign in to and out of the laboratory upon arrival and departure to the EHL.
5) Contractor workers will be escorted by laboratory personnel.
6) Contractor workers shall wear a Visitor's Badge provided by DEC while in the building.

1.02.04 Project Timeline

The work in this contract shall be completed no later than December 15, 2017 and shall take no longer than 5 consecutive calendar weeks to complete. Contractors that propose a schedule that accomplishes the work quickly and efficiently will be more competitive in Part A - RFP Basis of Selection.

2. Alaska Business License and Other Required Licenses

Prior to the award of a contract, an Offeror must hold a valid Alaska business license. However, in order to receive the Alaska Bidder Preference and other related preferences, such as the Alaska Veteran and Alaska Offeror Preference, an Offeror must hold a valid Alaska business license prior to the Deadline for Receipt of Proposals. Offerors should contact the Department of Commerce, Community and Economic Development, Division of Corporations, Business, and Professional Licensing, P. O. Box 110806, Juneau, Alaska 99811-0806, for information on these licenses. Acceptable evidence that the Offeror possesses a valid Alaska business license may consist of any one of the following:

- Copy of an Alaska business license;
- Certification on its proposal that the Offeror has a valid Alaska business license and has included the license number in the proposal;
- A canceled check for the Alaska business license fee;
- A copy of the Alaska business license application with a receipt stamp from the

State's occupational licensing office; or
- A sworn and notarized affidavit that the Offeror has applied and paid for an Alaska business license.

3. Point of Contact

Questions or matters pertaining to the technical aspects of the scope of work, deliverables, and reports are to be directed to the DEC Project Manager:

John Thornburgh
Environmental Health Lab
5251 Dr. Martin Luther King Jr. Ave.
Anchorage, AK 99507
Phone: 907-375-8223
Email: john.thornburgh@alaska.gov

Questions or matters pertaining to this RFP, the resulting contract, amendments, contract negotiations, modifications, or procurement protests are to be directed to the DEC Procurement Officer:

Natalie Wolfe
Procurement Services Unit
555 Cordova Street
Anchorage, AK 99501
Phone: 907-269-0291 Fax: 907-269-3061
Email: natalie.wolfe@alaska.gov

Questions or matters pertaining to invoicing, payments, and project completion are to be directed to:

Jean Greco
Environmental Health Director's Office
5251 Dr. Martin Luther King Jr. Ave.
Anchorage, AK 99507
Phone: 907-375-8207 Fax: 907-929-7335
Email: jean.greco@alaska.gov

4. Deliverables

The contractor awarded the contract resulting from this RFP shall complete and provide the following project deliverables. All deliverables shall be provided to the DEC Project Manager as set forth in Section 6. Point of Contact.

4.01 Initial On-Site Safety Briefing
Prior to the start of any on-site work related to this RFP, all Contractor workers involved in the project shall attend a mandatory on-site building safety/security briefing, estimated to be less than an hour in which rules in subsections 1.02.02

Schedule and 1.02.03 Safety will be reviewed and explained in further detail. This meeting will be scheduled the week of contract issuance and coordinated according to Section 3 Point of Contact.

4.02 Contract Type
The contract type shall be time and materials based on actual services rendered and actual costs incurred. Equipment and supply costs will be reimbursed without mark-up based on receipts provided.

4.03 Invoices
Invoices shall be submitted to DEC according to Section 3 Point of Contact. Invoices shall clearly indicate the Contract Number and include details of invoiced costs and receipts. Invoices shall be submitted to the State for payment within 30 calendar days of work completion. Both email and mail carrier delivery are acceptable modes of invoice delivery. Final invoices are due no later than December 20, 2017.

4.04 Project Schedule
The estimated project schedule is as follows. In the event the schedule needs adjusted, the DEC Project Manager will communicate the adjustments via written correspondence to the awarded contractor. Upon contract execution, DEC may work with the contractor to determine a firm schedule, and that schedule shall supersede the estimated schedule provided herein. All deliverables or tasks are due by the Close of Business (COB) on the due date noted below.

Deliverable or Task	Date Due
4.01 Initial On-Site Safety Briefing	October 23, 2017
1.03.02 Project Completion	December 15, 2017

5. RFP and Project Schedule

The RFP schedule is as follows. In the event the schedule needs adjusted, the Procurement Officer will issue the adjustments via a written amendment to the RFP. All times are Alaska Standard Time (AKST).

Event	Date Due	Time Due
Pre-proposal Walkthrough	October 5, 2017	10:00am Alaska Time
Inquiries	October 5, 2017	4:00pm Alaska Time
Response to Inquiries	October 6, 2017	
Proposal Due Date	**October 11, 2017**	**4:00pm Alaska Time**
Proposal Evaluation complete, NOIA issued	October 12, 2017	
Contract award issued	October 23, 2017	

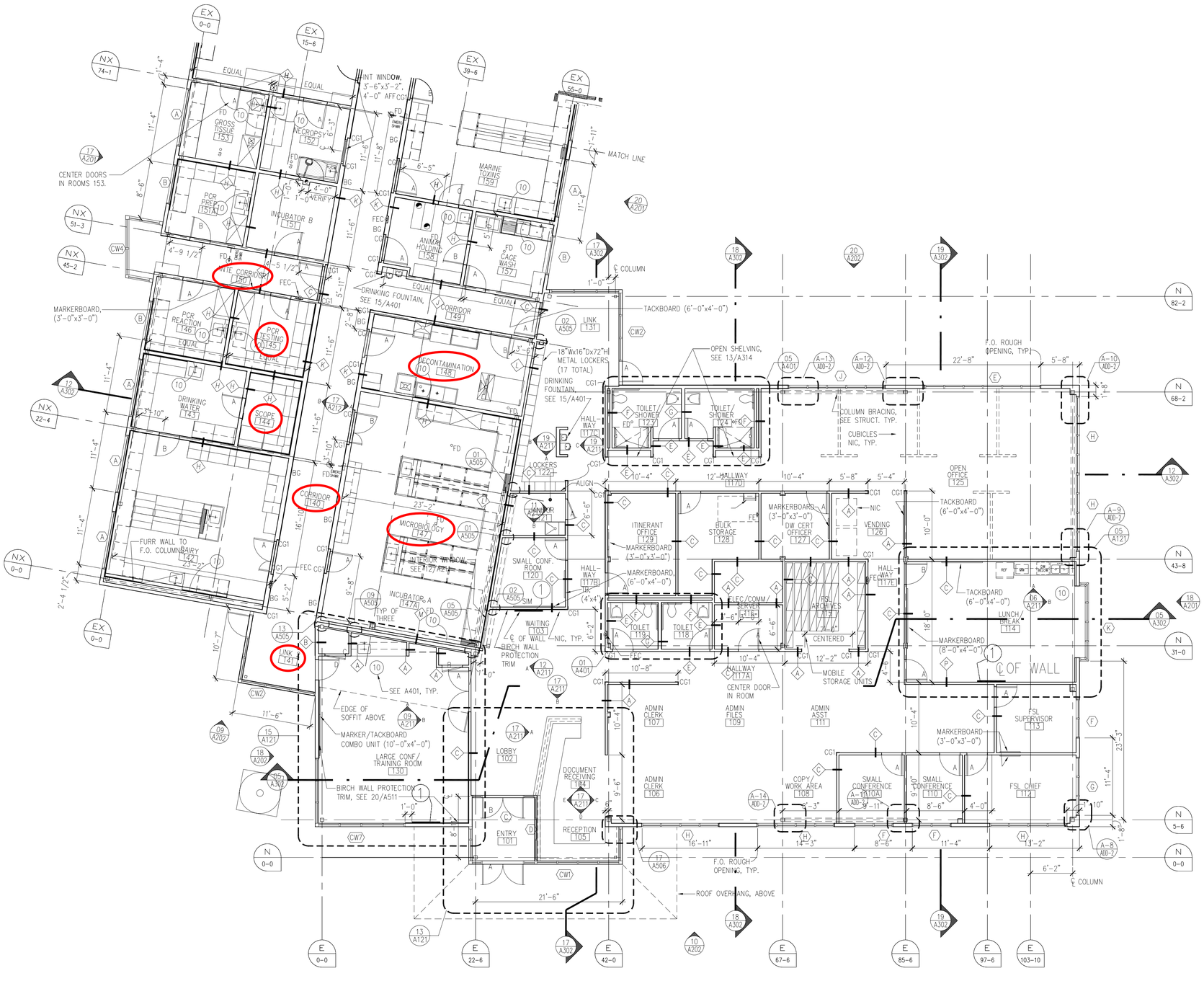
6. Proposal Requirements

Proposals
Proposals and pricing shall be provided in accordance with and submitted on Part A-RFP and include a cover letter.

Costs for this project will be paid based on actual services rendered and costs incurred for the performance and completion of the requirements herein. Travel that is proposed to occur outside of Alaska (out-of-state travel) must be identified within the cost proposal and is subject to DEC approval.

7. Attachments

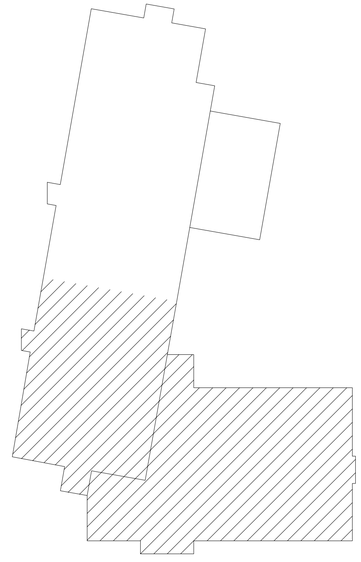
The following are provided as an attachment to this RFP.



13 A101 FLOOR PLAN – SOUTH

APPROXIMATE SCALE: 1\8" = 1'-0" 2011-AFP1.dwg

NORTH



FLOOR PLAN KEY

GENERAL NOTES

1. SEE A511 FOR INTERIOR PARTITION TYPES.
2. SEE A512 FOR BACKING PLATE CONSTRUCTION AS REQUIRED FOR WALL-MOUNTED FIXTURES, EQUIPMENT & ACCESSORIES.
3. SEE DETAILS 05 & 09, SHEET A501, FOR TYPICAL DISTANCE BETWEEN COLUMN CENTERLINE AND EXTERIOR FACE OF WALL STUD.
4. SEE L.P. DRAWINGS FOR LABORATORY CASEWORK/ EQUIPMENT TYPES AND LOCATIONS, TYPICAL.
5. SEE MECHANICAL FOR FLOOR DRAIN INFORMATION.
6. SEE A401 FOR TOILET ROOM PLANS, ELEVATIONS, & ACCESSORIES.
7. PARTITION & WALL DIMENSIONS ARE TO FACE OF STUD, WINDOW DIMENSIONS ARE TO FACE OF ROUGH OPENING, UNLESS INDICATED OTHERWISE.
8. DOOR & FRAME LOCATIONS WITH RESPECT TO FLANKING PARTITIONS ARE AS SHOWN ON SHEET A601, UNLESS SPECIFICALLY INDICATED OTHERWISE ON PLAN.

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SEAFOOD & FOOD SAFETY
LABORATORY
ANCHORAGE, ALASKA

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RECORD DOCUMENTS

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JANUARY 14, 2008

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PROJECT NO. 2011.00
DRAWN BY: LSI
REVIEWED BY: LSI
DATE: 01/14/08

RECORD DOCUMENTS
TITLE

FLOOR PLAN — SOUTH

SHEET NO.
A101

PERFORMANCE FLOORING SOLUTIONS
DUR-A-FLEX® Inc.
EPOXIES • MMA • URETHANES
COLORED QUARTZ AGGREGATES

PRODUCT DATA SHEET

95 Goodwin Street
East Hartford, CT 06108
Tel: 800-253-3539 • Fax: 860-528-2802 • Internet: http://www.dur-a-flex.com • E-Mail: info@dur-a-flex.com

DUR-A-WALL FGR(Fiberglass Reinforced)

DESCRIPTION

DUR-A-WALL FGR Epoxy Wall System is a colored, two component, low odor, 100% thermosetting epoxy formulation of DUR-A-GARD NO-SAG with fiberglass reinforcement designed especially for wall applications. DUR-A-WALL FGR is ideally suited for application on concrete, wood, drywall, or block. This coating is extremely durable, sanitary and easy to clean. The high gloss finish is stain resistant and virtually unaffected by oil, grease, strong detergents, and salt.

BENEFITS

- Stain Resistant
- Easy to Clean
- Durable
- Sanitary

COLORS

DUR-A-WALL FGR is available in 17 standard colors. Refer to the Standard Color Chart for actual colors. Custom colors are also available. See limitations for certain colors.

TYPICAL USES

- Laboratories
- Walk-In Coolers
- Pharmaceutical Plants
- Food Processing Plants
- Commercial Kitchens
- Clean Rooms
- Hospitals
- Laundries
- Kennels
- Bottling Plants
- Garages
- Warehouses

PACKAGING

DUR-A-WALL FGR Epoxy Wall System is packaged in 1 gallon cans, 5 gallon pails and 50 gallon drums. Shelf life is one year in unopened containers.

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to the master **"Chemical Resistance Chart"** for actual resistance to specific chemicals/reagents.

APPLICATION METHOD /SPREAD RATES

DUR-A-GARD NO-SAG is used throughout the DUR-A-WALL FGR system for base, grout and seal coats. Typically, DUR-A-GARD NO-SAG is applied with a roller at approximately 200 Sq Ft per gallon to yield an 8 mils wet film thickness, evenly with no runs. Coverage will vary depending on porosity and texture of surface.

A. Base Coat – Premix hardener and resin for 2 – 3 minutes with a slow speed Jiffler type mixer. Add 1 part hardener to 2 parts resin by volume. Mix with slow speed Jiffler type mixer for 2 – 3 minutes. Apply at a spread rate of 200 Sq Ft per gallon.

B. Fiberglass Reinforcement – Hang fiberglass cloth directly into wet epoxy resin, similar to hanging wallpaper so the seams are uniform and even. Overlap each strip and trim using a "double cut" method. Remove the trimmed material behind the front strip. After placing on the wall, use a broad knife to remove air pockets, wrinkles or irregularities. Allow to cure.

C. Grout Coat - Premix hardener and resin for 2 – 3 minutes with a slow speed Jiffler type mixer. Add 1 part hardener to 2 parts resin by volume. Mix with slow speed Jiffler type mixer for 2 – 3 minutes. Apply with short nap roller at a rate of 200 Sq Ft per gallon. Allow to cure for a minimum of 10 – 12 hours before sanding of bumps and other imperfections.

D. Seal Coat – Repeat instructions for grout coat.

E. Chemical Resistant Topcoat – POLY-THANE #3 is a two component, pigmented, aliphatic urethane performance topcoat. It is designed to provide excellent protection against very aggressive solvents, acids and alcohol's. POLY-THANE #3 also provides a high degree of abrasion resistance. It is specifically recommended to be used as a finish coat in any area where UV stability is critical.

"Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instructions provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product."

LIMITATIONS
This product is best suited for application in temperatures between 55°F and 95°F. Certain colors appear white when scratched. Light Blue, and Smoke Blue should be topcoated with POLYTHANE #3 to reduce the "White" appearance of scratches.

CLEANING
This product is considered a low maintenance coating solution, however, certain textures and service environments do require certain procedures. Please refer to the master **"Cleaning Guide"**.

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.

MOISTURE CONCERNS
Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master "**Moisture Assessment Guide**" for more information.

GUIDE SPECIFICATIONS
This product is part of the DUR-A-FLEX family of polymer systems. Please refer to the master **"Specifier's Guide"** for complete three part guide specs in multiple formats.

CAUTION
Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available. **Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.**

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.

PERFORMANCE FLOORING SOLUTIONS
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POLY-THANE #3

DESCRIPTION
POLY-THANE #3 is a pigmented, two component, aliphatic polyester-urethane performance topcoat. It is designed to provide excellent protection against very aggressive solvents, acids, and alcohols. It also provides a high degree of abrasion resistance. It is specifically recommended to be used as the finish coat(s) in any area where UV stability is critical. POLY-THANE #3 is extremely resistant to ambering and chalking due to sun or any high intensity UV light.

BENEFITS
- Non Ambering
- Good Chemical & Stain Resistance
- Excellent Abrasion Resistance
- Easy Maintenance
- Easy To Use Mix Ratio

COLORS
Refer to the Standard Color Selector Chart for readily available colors. Custom colors are also available.

TYPICAL USES
- Performance Topcoat for DUR-A-GARD
- Performance Topcoat for SHOP FLOOR System
- Performance Topcoat for DUR-A-CRETE System
- Re-Coat for dull epoxy/urethane coatings
- Hangar Floor Coating
- Maintenance Bays and Machine Shops
- Firehouse Floors
- Exterior Chemical Storage Areas

SPECIAL PURPOSES FORMULATIONS
POLY-THANE #3 is also available in satin and flat finishes.

SURFACE PREPARATION
This product requires preparation in order to perform as expected. Substrate must be profiled clean, sound, and dry. Substrate must be primed with DUR-A-SHIELD, DUR-A-POXY HIGH GLOSS, or DUR-A-GLAZE TIE-COAT, and sufficiently coated with DUR-A-GARD, SHOP FLOOR or DUR-A-CRETE. Please refer to the master **"Surface Preparation Guide"** for more information.

APPLICATION METHOD/SPREAD RATE
POLY-THANE #3 is typically applied with brush and roller at approximately 400 Sq Ft per gallon to yield a dry film thickness of 3 mils.

LIMITATIONS
This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry. Ignition sources, sparks and open flame must be avoided during application especially in confined areas. POLY-THANE #3 is highly flammable in its liquid state. Moving air with exhaust ventilation is necessary in most instances.

PACKAGING
POLY-THANE #3 is available in 1 gallon cans, 5 gallon pails, and 50 gallon drums.

CHEMICAL RESISTANCE
This product is resistant to many common chemicals. Please refer to the master **"Chemical Resistance Chart"** for actual resistance to specific chemicals/reagents.

"Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product."

POLY-THANE #3

TECHNICAL INFORMATION

Mix Ratio, by Volume	2:1
Working Time, 72°F, (parts combined)	3 - 4 hours
Shelf Life, 72°F	1 year in unopened containers
Color	Pigmented in standard colors
Viscosity	150 cps at 72°F
Drying Properties, 72°F, 50% R.H	Touch Dry - 1.5 hrs.
8 mil wet film	Recoat - 3-4 hrs.
Hard Dry	8-10 hrs.
Chemical Resistance	5 - 7 days
Flash-point, Closed Cup Test	110°F

Physical Property	Test Method	Result
60 Gloss	ASTM D-523	90+
Impact Resistance	ML D-2794	>160
Solids by volume		60+/-5*
Adhesion	ASTM D-4541	630 psi
Hardness	ASTM D-3363 ASTM D-2134	3H 40+
QUV	UVB-373/1500hrs	Gloss Retention
Flexibility (1/4: Cylindrical mandrel)	ASTM D-1737	Pass
Elongation	ASTM D-2370	9%
Tensile Strength	ASTM D-2370	7,000 psi
Coefficient of Friction	ASTM D-2047	>0.6
Abrasion Resistance CS17 wheel (1000g load) 1000 Cycles	ASTM D-4060	 15 mg loss

* Depends on color selected.

GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please refer to the master **"Specifier's Guide"** for complete three part guide specs.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master **"Moisture Guidelines"** for more information.

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.

CLEANING

This product is considered a low maintenance flooring solution, however, certain textures and service environments do require certain procedures. Please refer to the master **"Cleaning Guide"**.

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.

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DUR-A-GARD

DESCRIPTION

DUR-A-GARD Epoxy Coating is a pigmented, two component, low odor, 100% solids, thermosetting epoxy designed especially for flooring applications subjected to moderate traffic and chemicals. DUR-A-GARD Epoxy Coating is ideally suited for application on concrete, wood and metal. This coating is extremely durable, sanitary and easy to clean. The high gloss, tile-like finish is stain-resistant and virtually unaffected by oil, grease, gasoline, strong detergents and salt.

BENEFITS

- Stain Resistant
- Easy to Clean
- Good Color Stability
- Durable
- Low Viscosity

COLORS

Dur-A-Gard is available in 17 standard colors. Refer to the Standard Color Chart for actual colors. Custom colors are also available. See limitations for certain colors.

TYPICAL USES

- Laboratories
- Garages
- Pharmaceutical Plants
- Food Processing Plants
- Clean Rooms
- Hospitals
- Laundries
- Kennels
- Bottling Plants

PACKAGING

DUR-A-GARD Epoxy Coating is packaged in 1 gallon cans, 5 gallon pails and 50 gallon drums. Shelf life is one year in unopened containers.

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to the master **"Chemical Resistance Chart"** for actual resistance to specific chemicals/reagents.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound, and dry. Substrate must be primed with DUR-A-SHIELD, DUR-A-POXY HIGH GLOSS, or DUR-A-GLAZE TIE-COAT. Please refer to the master **"Surface Preparation Guide"** for more information.

APPLICATION METHOD /SPREAD RATES

DUR-A-GARD is typically applied with a roller at approximately 100-200 Sq Ft per gallon, depending on substrate type and condition. See DUR-A-GARD Application Instruction Sheet for complete instructions.

LIMITATIONS

This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry. Some light colors may require multiple coats for adequate hiding power. Certain colors appear white when scratched. Light Blue, and Smoke Blue should be topcoated with POLY-THANE #3 to reduce the "White" appearance of scratches.

CLEANING

This product is considered a low maintenance flooring solution, however, certain textures and service environments do require certain procedures. Please refer to the master **"Cleaning Guide"**.

"SPECIAL PURPOSE" FORMULATIONS

1. **DUR-A-GARD "Regular"** has good color stability and a fairly low viscosity so it is easy to apply. However, it is very sensitive to water and moisture during its curing period. The surface must be perfectly dry during application.
2. **DUR-A-GARD "No Sag"** is designed for wall applications to avoid "coating sag". "No Sag" features the extended pot life and working time necessary for working on walls.
3. **DUR-A-GARD "Fast"** is a fast curing hardener designed for fast curing intermediate coats.
4. **DUR-A-GARD "OPF"** is designed to be used as the first and / or second topcoat to yield a uniform "orange peel" finish.
5. **CRETE-GARD** is designed as a topcoat for DUR-A-CRETE, and to achieve a heavy orange peel texture.
6. **DUR-A-GARD "SH"** is designed to withstand super high shear loads found in high lift areas.
7. **DUR-A-GARD "SL"** is a filler enhanced 100% solids epoxy designed to yield a thicker (35-100 Mils) finish.

"Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product."

DUR-A-GARD

TECHNICAL INFORMATION

Color	Available In All Standard Colors
Mix Ratio (by volume)	1 Part Hardener To 2 Parts Resin
Viscosity at 70° F	700 cps
Pot life at 70° F	20 – 25 Minutes
Cure Time, Touch Dry at 70° F	4 – 6 Hours
Cured Film Thickness	16 Mils at 100 Sq. Ft. / Gallon Spread Rate
Toxicity	Non – Toxic, USDA Approved

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	70-80
Compressive Strength	ASTM D-695 ASTM C-579	16,000 psi 10,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	3,000 psi 1,950 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790 ASTM C-580	4,000 psi 2,900 psi
Flexural Modulus of Elasticity	ASTM D-790	5.5×10^5
Linear Shrinkage	ASTM D-2566	0.02%
Linear Expansion	ASTM D-696	2×10^{-5}
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	MIL D-3134	.025 MAX
Impact Resistance	MIL D-3134	Pass
Water Absorption	ASTM D-570	0.04%
Heat Resistance Limitation		140°F - 200°F
Flammability	ASTM D-570	Self Extinguishing
Flame Spread/NFPA 101	ASTM E-84	Class B
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM C-501	 35 mg loss
Coefficient of Friction Orange Peel Smooth	ASTM D-2047	 0.8 0.7

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.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master "**Moisture Guidelines**" for more information.

GUIDE SPECIFICATIONS

This product is part of the DUR-A-FLEX family of polymer systems. Please refer to the master **"Specifier's Guide"** for complete three part guide specs in multiple formats.

CAUTION

Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available. **Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.**

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.