



ADDENDUM # 05

Date: March 11, 2022

Reference: Roofing Services at Thunderbolt Career & Technology Center

IFB Number: BG-RoofingTCTC

Effective this date, this addendum forms part of the contract documents and modifies the original IFB. This Addendum shall be attached to and form a part of the plans and specifications. All bidders must acknowledge receipt of this addendum on the Bid Form.

Please see the *INFORMATION LISTED BELOW FOR:*

- ***The revised BASF recoating specification Section 07 5713 – Seamless Silicone/Polyurethane Insulation Renewal Roofing System and the Section 00 0110 – Table of Contents.***
- ***Section 07 5713 includes all the revisions and Section 00 0110 include the revised Section 07 5713 new title name.***

SECTION 07 5713**SEAMLESS SILICONE/POLYURETHANE INSULATION RENEWAL ROOFING SYSTEM****PART 1 - GENERAL****1.01 WORK INCLUDED**

- A. Preparation of Substrate
- B. BASF SKYTITE Sprayed-in-place Polyurethane Foam (SPF) Insulation
- C. BASF SKYTITE Silicone Roof Coating
- D. Roofing Granules
- E. Walkways

1.02 RELATED REQUIREMENTS

- A. Section 06 100: Rough Carpentry
- B. Section 07 600: Flashing and Sheet Metal

1.03 SCOPE OF WORK

- A. The Contractor shall perform rehabilitation of existing coated SPF Roofing System using good roofing practice, some areas may require removal of the coating and/or the insulation; other areas shall require surface preparation and recoating with silicone coatings and granules. Areas shall be as described by the specifier and/or the contractor. Areas that are determined to have ponding water shall be addressed as follows. Scarify the top layer of coating & foam down to an acceptable substrate. Apply a thin layer of BASF SKYTITE 1800 primer over the scarified substrate & let it dry. Next apply a thin layer of PUF over the primer, this will seal up the open cells of the existing foam. After the first layer foam has cured additional layers of SPF can be applied in order to insure positive slope. All applicators are required to take and pass the CPI Health and Safety Training before using SPF materials for this project is available for free at www.spraypolyurethane.org.

1.03 REFERENCE STANDARDS

- A. The codes, standards and practices listed shall be the latest edition. ASTM refers to ASTM International.
- B. ASTM C 518 – Standard Test Method for Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
- C. ASTM D 93 – Standard Test Methods for Flash Point by Penske-Martens Closed Cup Tester.
- D. ASTM D 115 – Standard Test Methods for Testing Solvent Containing Varnishes
- E. ASTM D 412 – Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension.
- F. ASTM D 822 – Standard Practice for Filtered Open Flame Carbon Arc Exposures of Paint and Related Coatings.
- G. ASTM D 1203 – Standard Test Methods for pH of Water.
- H. ASTM D 1621 – Standard Test Method of Compressive Properties of Rigid Cellular Plastics.
- I. ASTM D 2126 – Test Method for Response of Rigid Cellular Plastics to Thermal and Heat Aging.
- J. ASTM D 2240 – Standard Test Method for Rubber Property Durometer Hardness.
- K. ASTM D 2697 – Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings.
- L. ASTM D 2856 – Standard Test Method for Open-Cell Content of Rigid Cellular Plastics by the Air Pycnometer.
- M. ASTM D 3690 – Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.

- N. ASTM D 6694 – Standard Specification for Liquid-Applied Silicone coating Used in Spray Polyurethane Foam Roofing Systems.
- O. ASTM D 6705 – Standard for Repair and Recoat of SPF Roof Systems.
- P. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- Q. ASTM E 96 – Standard Test Method for Water Vapor Transmission of Materials.
- R. ASTM E 108 (UL 790) – Standard Test Method for Fire Tests of Roof Coverings.
- S. SPFA AY 104 – Spray Polyurethane Foam Systems for New and Remedial Roofing.

1.04 INSPECTION OF EXISTING ROOF SYSTEM

- A. In all cases, an inspection of the existing polyurethane foam roof system must be completed by an Approved Applicator and submitted to BASF's Technical Department, detailing any deficiencies in the current system. An infrared moisture survey is required to determine if there is any moisture in the existing system. This moisture survey **MUST** be done by Wood PLC the engineering firm, this is the firm that will be conducting the final inspection prior to BASF issuance of the warranty. If extensive deficiencies are found in the existing polyurethane foam roof system, recoating with BASF SKYTITE S-5001-L Series would not be recommended and full or partial removal of the existing roof system would be suggested.

1.05 QUALITY ASSURANCE

- A. Applicator Qualifications: Must be a current BASF Approved Team Q Applicator or current applicator of the approved roof system manufacturer. All Applicators must have completed The Center for the Polyurethanes Industry (CPI) of the American Chemistry Council, Health & Safety Training Program and listed on roster to be verified for project safety reasons. Verification of this information must be provided to the Owner upon request.
- B. Roofing applicator must exhibit 10 years and a minimum of 1,000,000 sq. ft. experience with the selected roofing system, with projects of a similar scope and nature.
- C. A mandatory Pre-Bid Conference shall be conducted. Its purpose shall be: To discuss any details of the project not adequately covered within the specification; to allow bidding applicators a period of access to the roof areas; and to review the normal flow of activities at the facility. There will be no other access to the roof area without the consent of the Owner's representative. All bidding applicators must attend this Pre-Bid Conference. A list of those companies present will be recorded.
- D. The roofing applicator shall perform the work of this section. Subcontracting installation of the silicone coating/polyurethane foam is not allowed.
- E. Inspections: Completed roofing application will be inspected by an independent inspection firm designated by the warranty provider on a periodic basis.
- F. Roofing system manufacturer shall have a 5A D&B or better rating and be ISO 9002 certified.

1.06 SUBMITTALS

- A. Warranty: Submit manufacturer warranty and ensure that all forms and fees have been submitted in Owner's name and registered with manufacturer.
- B. Alternates: Any alternate products shall be submitted to the Owner and/or Owner's representative 10 days before bid date to allow time for product review. Submittals shall include: all appropriate technical data sheets, manufacturer's references, installation instructions, sample warranty, follow-up inspection policies, material safety data sheets, and a typical, physical sample (3' x 3') to be used as a standard of quality. Manufacturer shall supply list of geographically appropriate work and list of work of similar size and scope to substantiate their period of performance and conform to the physical properties identified in Section 2.
- C. Applicator shall submit to Owner's representative at or before time of bid:
 - 1. Reference projects with contacts, substantiating years of experience and completion of minimum prior work submitted by applicator.
 - 2. Submit product data sheets for SPF foam and coatings

3. Submit current ICC ES Report for the roofing system.
4. Submit Underwriters Laboratory, UL 790 classification, or Factory Mutual, and local building code approvals as required/requested.

1.07 MATERIALS, DELIVERY AND STORAGE

- A. Deliver materials to the site in their original, tightly sealed containers, all clearly labeled with manufacturer's name, product identification and lot number.
- B. Safely store materials in their original containers out of the weather and where the temperatures are within the limits specified by the manufacturer.
- C. All materials shall be stored in compliance with applicable fire and safety requirements.
- D. Protect materials from damage during transit, handling, storage and installation. Applicator shall provide secure site storage trailers.

1.08 ENVIRONMENTAL CONDITIONS

- A. The coating and the polyurethane foam shall not be applied during periods of inclement weather (rain, snow, fog, mist).
- B. Do not apply the polyurethane foam when substrate or ambient air temperatures are below 40°F unless specifically approved in writing by the polyurethane foam manufacturer.
- C. Do not apply silicone coatings when temperature is below 40°F.
- D. When wind speeds exceed 10 miles per hour or adversely affects the quality of the SPF, windscreens shall be used during the application of the polyurethane foam and coatings to prevent overspray onto surfaces not intended to receive foam and coating. Under no circumstances shall the polyurethane foam or silicone coating be applied when wind speeds exceed 25 miles per hour.

1.09 SEQUENCING AND SCHEDULING

- A. The spray polyurethane foam is installed when the deck, parapet walls, rough openings, and curbs are completed. Plumbing vents, drains, and electrical penetrations should all be in place. There should not be any tradespeople working on the roof when the spray polyurethane foam and silicone coating are being installed.

1.10 WARRANTY

- A. The roof system manufacturer's 10 Year Recoat System Warranty shall be issued upon completion, inspection, and acceptance of the project. Any repairs covered by the warranty are without cost to the Owner throughout the term. The warranty shall be comprehensive with no proration and no cap for repairs.

PART 2 - PRODUCTS**2.01 MANUFACTURERS**

- A. The spray polyurethane foam and the protective silicone coating material must be supplied by one manufacturer.
- B. Basis-of-Design Manufactured: BASF Corporation, 1703 Cross Point Ave, Houston, TX.

2.02 POLYURETHANE FOAM INSULATION

- A. Basis-of-Design Product: BASF SKYTITE C1-2.8 or 3.0 Polyurethane Foam.
- B. Physical property requirements are as follows, for acceptable insulation products with zero-ozone depleting potential:

| Property | Value | Test Method |
|--|-----------|-------------|
| Density, pray-in-place, pcf, min. | 2.7 – 3.2 | ASTM D1622 |
| Compression strength, psi, min. | 50 | ASTM D1621 |
| Closed-cell content, percent min. | >90% | ASTM D2856 |
| K-factor, aged, max. | 0.158 | ASTM C518 |
| Dimensional Stability, 28 days, Percent volume change, max. | +0.69 | ASTM C2126 |
| Flame spread, max. | <75 | ASTM E84 |

2.03 PROTECTIVE SILICONE COATING

- A. The silicone roofing membrane shall consist of a minimum two coats of an elastomeric, liquid applied material, domestically engineered and produced. The two coats shall be of contrasting colors. The minimum two-coat thickness shall be 20 dry mils on newly applied polyurethane foam and 15 dry mils on existing coating. BASF does require a minimum of 2.5 gallons per square of contrasting colors to achieve the mandatory 15 dry mils of silicone coating, for a 10-year re-coat warranty. The color of the top coat shall be determined by the building Owner. BASF also requires that the contractor submit with their bid documents the amount of gallons of material that they plan to use on this project.
1. The silicone coating will be a product proven through actual roof performance for a period of time equal to, or longer than the terms of the requested warranty.
 2. The manufacturer shall have an established program to rapidly respond to any required warranty repair, if the original applicator is unable to perform standard repairs.
- B. Product: BASF SKYTITE S-5001-L Series coating shall have the following minimum properties:

| Property | Value | Test Method |
|--|---------------|-------------|
| As Supplied: | | |
| Solid Content – | | |
| By weight, percent | 76% | ASTM D2697 |
| By volume, percent | 66% | ASTM D2697 |
| Specific Gravity at 77 degrees F | 1.43 | ASTM D1293 |
| Flash Point, Pensky-Martin, Closed cup, degrees F, min. | 106 | ASTM D93 |
| Volatile Organic Content (VOC), (g/l) | 250 | ASTM D3960 |
| As Cured – | | |
| Durometer Hardness, Shore A, points | 50 | ASTM D2240 |
| Tensile Strength, die C, psi | 350 | ASTM D412 |
| Elongation, percent | 200% | ASTM D412 |
| Permeability, perms | 3.3 | ASTM E96 |
| Temperature Stability Range, degrees F | -35 to 212 | ASTM D822 |
| Weathering, | | |
| Carbon-Arc, 4,000 hours | No observable | ASTM D822 |
| QUV, 10,000 hours | degradation | ASTM G53 |

2.03 SEALANT

- A. Sealant shall be a pigmented silicone sealant such as Dow Corning® Contractors Weatherproofing Sealant. The color of this sealant, if exposed, shall closely match that of the topcoat.

2.04 SUBSTRATE PRIMER

- A. Securock – if kept clean, with little dust, will not require a primer.

- B. For B.U.R., concrete, wood, brick, metal (ferrous, not rusted), and most 'painted' metal - the primer must be approved by BASF Corporation, such as SKYTITE S-1800 or SKYTITE A-1600 Primer.
- C. For non-ferrous metals (cleaned aluminum, galvanized copper, etc) - a primer shall be required, which is approved by BASF Corporation. Such a primer is Mist Coat II Primer by Jones-Blair.
- D. Cut-back asphalt primers are not to be used.

2.05 GRANULES

- A. Granules shall be number 11 screen size, ceramic-coated roofing granules as manufactured by the Industrial Products Division of 3M Company or equal, color to best match topcoat.
- B. Quartz or silica aggregate such as Kafka Quartz granules, this product will have natural color variations, color should be selected to match topcoat.

2.06 PROTECTIVE COVERING / WALKWAYS

- A. As required a weather-resistant, breathable, resilient pad composed of synthetic rubber strands shall be installed to create additionally protected roof areas. This product shall be approved by BASF. Such a walkway is Yellow Spaghetti, as manufactured by Western Plastics, Inc.
 - 1. Verify the location of protective walkway / coverings in the field with the Owner.
- B. An alternate walkway may be used incorporating extra coating and the use of granules and a top coating installed over the granules, called a "lock down coat".

2.07 GYPSUM BOARD

- A. Shall be a ½ inch Securock or a glass matt faced, moisture-resistant core gypsum board.

2.08 POLYISOCYANURATE INSULATION BOARD

- A. Shall be a closed-cell polyisocyanurate foam core integrally laminated to inorganic coated glass fiber facers, such as Atlas AC III.

PART 3 – EXECUTION**3.01 INSPECTION**

- A. Verify that all surfaces to receive polyurethane foam insulation are clean, dry and free of dust, dirt, debris, oil, solvents and all materials that may adversely affect the adhesion of the polyurethane foam.
- B. Verify that all roof penetrations and flashings are properly installed and secured.
- C. Do not begin applying polyurethane foam insulation until substrate and environmental conditions are satisfactory.

3.02 SURFACE PREPARATION

- A. Existing Coated Polyurethane Foam Roofing System – Areas to be scarified
 - 1. Existing roof shall be inspected for any areas of wet insulation and areas of poor drainage; they shall be plotted on a roof diagram for later inspection and remediation.
 - 2. In any wet or loose areas identified in 3.02.A.1, the entire silicone coating surface and approximately ½" of polyurethane foam insulation shall be removed by a roof scarfer. This machine shall be designed to plane polyurethane foam /coating systems to a level and renewable condition. All waste created in the planning process shall be contained, gathered, and properly disposed of.
 - 3. Any wet insulation, including that within an underlying roof system, shall be removed. Clean and dry the area and install new similar compatible insulation, and/or apply polyurethane to the level of adjacent surfaces.

4. Primer - install primer such as BASF SKYTITE S-1800 as required by the warrantor's recommendation.
 5. Continue with the application of SPF Insulation and Coating System.
- B. Recoat: For existing polyurethane foam roof systems that are deemed "acceptable for recoating", the following surface preparation guidelines shall be followed:
1. Hail damaged areas are to be repaired with silicone roofing caulk by Dow Corning to seal cuts and tears to the silicone waterproofing coating. Spot cleaning of these areas before the silicone caulk repair is required if the surface is not clean.
 2. Clean existing coated surface with a high-pressure power wash using only clean water. During the power wash operation, the water pressure should be sufficient to remove dirt and debris without damaging the existing coating and polyurethane foam. Power washing with a detergent solution and water is only permitted when power washing with water alone does not sufficiently remove dirt and other contaminants.
 2. Scour any areas of accumulated dirt, fungus, mold, grease, oil, etc. with a detergent solution and water. Solvents should not be used for these cleaning purposes.
 3. In areas where a detergent solution has been used in the cleaning process, additional power washing with clean water is required to remove all residual detergent.
 4. The following minimum work shall be completed:
 - a. All wet or otherwise substandard polyurethane insulation shall be removed and replaced. Apply the polyurethane foam in strict accordance with the polyurethane foam manufacturer's specifications and application instructions, using spray equipment recommended by the SPF manufacturer. The field of the roof shall be applied, as practical, by a robotic SPF application device. The robotic method shall improve - consistency, slope-to-drain, and visual appearance.
 - b. Any deteriorated components of the substrate shall be replaced or brought up to acceptable standards of the warranty provider or good roofing practice.
 - c. The existing coating shall be properly adhered, if not, all loose coating shall be removed. Cracks, flashing details, slope-to-drain, metal edging, penetrations, roof drains, and all other components of the roofing system shall be functional and in accordance with manufacturer's application instructions.
 5. Deficiencies outlined in the Approved Applicator Inspection or infrared moisture survey shall be properly repaired prior to the recoat operations. Should any questions exist regarding the proper repair procedures, contact the BASF Technical Department. Telephone number (800) 706-0712 or by email at spfinfo@basf.com.
 6. Continue with the application of SPF Insulation and Coating System.

3.03 POLYURETHANE FOAM APPLICATION

- A. Inspection
1. Prior to polyurethane foam application, inspect the substrate surface to ensure preparations required in Section 3.02 have been met.
 2. Polyurethane foam shall not be applied unless the environmental requirements of Section 1.08 are met.
- B. Application
1. All objects that require protection from overspray shall be protected; all movable objects shall be moved to an acceptable area. All intake air vents shall be turned off and covered.
 2. Apply the polyurethane foam in strict accordance with the polyurethane foam manufacturer's specifications and application instructions, using spray equipment recommended by the polyurethane foam manufacturer. The field of the roof shall be applied, as practical, by a digitally controlled robotic SPF application device. The robotic method shall improve consistency, slope-to-drain, and visual appearance.
 3. Polyurethane foam shall be applied in a minimum of ½-inch thick passes. The total thickness of the polyurethane foam shall be a minimum of 1.5 inches (or more for additional insulation value), except where tapering is required to facilitate drainage.
 4. Apply the full thickness of polyurethane foam in any area on the same day.

5. Polyurethane foam shall be applied to ensure proper drainage, resulting in no ponding water. Ponding water is defined as "an area of 100 square feet or more which holds in excess of ½ inch of water as measured 24 hours after rainfall."
6. The polyurethane foam shall be terminated neatly a minimum of 4 inches above the finished roof surface at roof penetrations. Foamed-in-place cants shall be applied to allow a smooth transition from the horizontal to vertical surface.
7. The finished polyurethane foam surface texture shall be "smooth to orange-peel", free of voids, pinholes and depressions. "Verge of popcorn" texture is acceptable if it can be thoroughly and completely coated. Popcorn and tree bark textures are not acceptable. Unacceptable foam textures shall be removed and re-sprayed prior to coating application.

3.04 SILICONE ROOF COATING APPLICATION

- A. Bases-of-Design: SKYTITE S-5001L Series Silicone Roof Coating System.
- B. Inspection
 1. Prior to the application of silicone coating, inspect the polyurethane foam surface to ensure the conditions of Section 3.03 have been met.
 2. The polyurethane foam surface shall be free of moisture, dust, dirt, debris and other contaminants that would impair the adhesion of the silicone coating.
 3. If more than 24 hours elapse between the polyurethane foam application and the start of the silicone coating application, thoroughly inspect the polyurethane foam surface for UV degradation and oxidation. Call BASF's Technical Department, for procedures to proceed, if UV damage has affected the foam.
 4. Make sure all environmental conditions of Section 1.08 are met prior to silicone coating application.
- C. Application
 1. The silicone base coat shall be applied on the same day as the polyurethane foam application, after the polyurethane foam has been allowed to cure a minimum of one hour.
 2. Apply the base coat in a uniform application to achieve a finished dry film thickness of approximately ½ the total millage required for the roof.
 4. The base coat shall not be subjected to foot traffic or otherwise disturbed until it is tack-free or cured.
 5. After it has cured, inspect the coating for pinholes, cracks, thin areas or other defects. All defects observed shall be caulked with sealant and/or roller coated with additional basecoat prior to applying subsequent coats of silicone.
 6. The basecoat must be cured, clean and free of all moisture prior to application of topcoat.
 7. Apply the topcoat in a contrasting color to the base coat within 72 hours of the basecoat application. The topcoat application shall be made at right angles to the base coat application. Surface texture and conditions may require additional quantities of silicone to insure proper thickness. It is the contractor's responsibility to properly coat the insulation regardless of the quantity of silicone coating required.
 8. Apply the base & top coat in a uniform application to achieve a minimum of 15 dry mils over existing coated roof surfaces and 20 dry mils minimum over new SPF surfaces. It is the applicator's responsibility to ensure the minimum total dry film thickness specified is achieved throughout the entire roof area regardless of the quantity of silicone coating required.
 9. The Silicone Roof Coating shall be applied a minimum of 2 inches beyond all the terminated edges of the polyurethane foam. These terminations should be masked to provide a straight edge, neat, finished appearance.
 10. Allow the topcoat to cure and inspect the finished coating surface for pinholes, cracks, thin areas, or other defects. Repair any defects observed with silicone sealant and/or additional silicone coating material.
 11. It is the applicator's responsibility to ensure the minimum total dry film thickness specified is achieved throughout the entire roof area regardless of the quantity of liquid silicone required.

3.05 GRANULE APPLICATION

A. Application

1. Apply roofing granules in the second or finish coat of silicone coating. A minimum of 10 dry mils of silicone coating is required to hold the granules.
2. Apply the roofing granules, using suitable compressed air equipment, uniformly at a rate of approximately 30-40 pounds per 100 square feet of roof area.
3. Apply the roofing granules immediately after the additional coating application to obtain maximum wet-out and imbedment.
4. After the coating has fully cured, all loose granules shall be removed using a soft-bristled broom to prevent blocking drains and scuppers.
5. Bare spots in the granulated surface shall be filled in by applying additional coating and granules in these areas.

3.06 WALKWAYS

- A. Factory-formed walkway pads may be used at roof-top equipment to provide a working surface. Spot adhere the pads or rolls to the finished roof surface with generous buttons of sealant. These shall be applied where instructed by the Owner's representative.
- B. Walkways may also be constructed by marking out the walk path, adding an additional 10-15 mils seeded with additional granules or aggregate. This coating shall be in light but contrasting color as well as granules to match.

3.07 FIELD QUALITY CONTROL

- A. The independent inspector, Wood PLC Engineering, shall instruct the contractor to repair any deficient roof areas, such as: ponding, wet insulation, deck problems, required new drains, etc.
- B. Core samples of the silicone roof system will be secured at completion by an independent licensed inspection firm at a rate of one core per 10,000 square feet, with a minimum of 2 cores per roof, to test for SPF thickness, compressive strength, density and adhesion. Additionally, slit samples will be taken at a rate of 6 per 10,000 square feet, with a minimum of 6 per roof, to test the coating thickness and coating adhesion. Sampled areas will be repaired using silicone sealant and replacement SPF cores.
- C. Applicator's quality control during application shall consist of the following, as a minimum:
 1. If specified, the primer application rate shall be verified by a wet mil gauge test onto a metal test panel.
 2. Insulation thickness shall be verified with a probe at frequent and random locations.
 3. During and after the coating application process, the applicator shall remove slits to examine adhesion of the coating to the insulation and the dry film thickness of each coat.

3.08 SAFETY REQUIREMENTS

- A. Proper safety precautions shall be followed throughout the entire roofing operation. OSHA and local regulations shall be strictly followed. Manufacturer's Material Safety Data Sheets must be available on site, for specific safety information on handling and working with all materials. Spray Polyurethane Foam Alliance and the American Chemistry Council's Recommendations for the Safe Handling and Use of Sprayed Urethane Foam and Coating Materials shall be strictly adhered to. Dispose of all trash, debris and empty containers in accordance with local regulations.
- B. On the roof and at all work sites, a properly maintained fire extinguisher will always be available.
- C. Dispose of trash, debris and empty containers in accordance with local regulations.

3.09 FOLLOW-UP INSPECTIONS

- A. The roofing system manufacturer shall have a standard inspection program, employing an independent testing firm, Wood PLC Engineering, to perform periodic inspections throughout the term of the warranty.

END OF SECTION

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