***NOTE TO SPECIFIER:***

*Granitex Light Broadcast System is a fluid applied, tough, easy-to-clean and maintain, decorative broadcast vinyl paint chips floor system. SK-S8420 Granitex Color Chip are available in 12 color blends (sizes 1/8” or 1/4” or 5/8”). SK-E100 is a two component, water based epoxy prime coat, with SK-P100 Pigmented (Pigmented or VOC Pigmented) receiving coat is a two component, aliphatic polyester urethane and top coat with SK-P100 is a two component, aliphatic polyester urethane top coat with an ultra violet stabilizer. Super-Krete® Products are Manufactured by Arizona Polymer Flooring.*

**PART 1 – GENERAL**

* 1. Related Work Specified in Other Sections (Delete if Not Applicable):
     1. Granitex Light Broadcast System that is placed direct to concrete. The portland cement concrete substrate shall be placed, finished and leveled in accordance with industry standards.

1. New portland cement concrete shall be placed in accordance with American Concrete Institute, ACI 302.R Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials.
2. Per ACI 302.R the new concrete is to be placed directly on the subgrade moisture barrier in accordance with ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.
3. Existing portland cement concrete must be cored to determine if it was placed (in accordance with ACI 302.2R) on an adequate positive side moisture barrier. If not, the existing concrete surface will most likely require a positive side moisture mitigation primer.
   * 1. Granitex Light Broadcast System placed direct to Cementitious Overlayment must be placed on properly prepared concrete that conforms to 1.1.1 above.
     2. Testing Moisture Levels and Allowable Moisture Limits:
4. Moisture Vapor Transmission testing per ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Substrate Using Anhydrous Calcium Chloride. Limit is three pounds per 1,000 square feet in 72 hours. If the moisture limit exceeds the manufacturer’s published limits a manufacturer’s approved moisture mitigation primer shall be required.
5. Relative Humidity testing per ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes. Limit is a Relative Humidity of 75% or less in 72 hours. If the relative humidity limit is exceeded a manufacturer’s approved moisture mitigation primer shall be required.

* + 1. Concrete Condition:

1. A maximum height variation not to exceed 1/4 inch in 10 feet.
2. No curing agents, other additives and contaminates which might prevent a bond must be removed.
3. Concrete is to be free of sodium silicate and potassium silicate sealers or densifiers. If they are present they must be removed.
4. Concrete or cementitious overlayments must be sound and durable, if not they must be repaired.
   1. Quality Assurance:
      1. Acceptable Manufacturer:
5. Materials shall meet or exceed the Specification minimum or maximum physical and mechanical properties.
6. Materials shall be manufactured by single manufacturer.
7. Material manufacturer must provide Application Instructions, clearly stating that the submitted products meet the requirements of the Specification.
8. Alternative material suppliers must submit Technical Data Sheet, Application Instructions and Certification of Compliance at least twenty-eight (28) days prior to bid. Submittals made after the required stated lead-time, shall be considered non-responsive and rejected.
   * 1. Acceptable Installer:
9. Acceptable installers shall have a written endorsement from the manufacturer stating that they are qualified to install the materials in this specification.
10. Acceptable installers shall submit a letter from the material manufacturer and signed by an officer of the company stating that the installer is in good financial standing with the material manufacturer.
11. Acceptable installer shall perform all work in accordance with the material manufacturer’s Application Instructions.
12. The installer must furnish a detailed list of projects of similar magnitude to the one specified that they have completed in the last three years. The package must include a list of specific contacts, job titles, addresses and the phone number of contacts.
    1. Submittal:
       1. Samples:
13. The installer shall submit a maximum of three samples, minimum 6” x 6” for each color specified and the samples shall be clearly labeled.
14. ADA (Americans with Disabilities Act) Compliant to Dry or Wet, Flat or Ramp, if required.
    * 1. Maintenance Literature:
15. The installer shall submit a copy of the material manufacturer’s recommended care and maintenance procedures.
    * 1. Quality Assurance Certification:
16. Material shall be delivered to the job-site in unopened containers, properly labeled by the supplier, including product name, component(s), batch or lot number.
17. Material manufacturer shall furnish through the installer, current Safety Data Sheets, which shall comply with current state, providence, federal government or military requirements.
    1. Delivery, Storage and Handling:
       1. Delivery of Material:
18. Material shall be delivered to the job-site undamaged and protected from damage after delivery by the General Contractor or the installer.
19. Material shall be delivered to the job-site in unopened containers, properly labeled by the manufacturer and with the proper Safety Data Sheet per 1.3.3.
20. Proper Labels, include:
21. Manufacturer’s Name and Address
22. Product Name and/or Number
23. Component Reference’
24. Mix Ratio (if applicable)
25. CHEMTREC Emergency Response Information
26. Lot or Batch Number(s)

* + 1. Storage of Material:

1. Materials shall be stored in a covered area, out of the elements (including direct sunlight) that is clean, dry and heated (if required) and maintained between 600F – 900F.
   * 1. Handling:
2. Material shall be handled only by the approved installer, in accordance with industry standards and compliance with Safety Data Sheet(s) requirements.
   1. Access:
      1. Installer shall be provided free and unencumbered access to all areas deemed necessary by the installer in order to execute the work in accordance with this Specification.

* + 1. Material manufacturer shall be granted free and unencumbered access to observe the substrate prior to installation, during the installation and after the installation.

* 1. Warranty:
     1. The manufacturer guarantees that the products are free from manufacturing defects and complies with their published specification.

**PART 2 – PRODUCTS**

* 1. Manufacturer:
     1. Arizona Polymer Flooring, 4565 W. Watkins St., Phoenix, Arizona 85043, Phone: 623.435.2277.
     2. Translucent Granitex Light Broadcast System Related Work: Resin system, crack and control joint filler shall be supplied.
     3. Granitex Light Broadcast System is a fluid applied, tough, easy-to-clean and maintain, decorative broadcast vinyl paint chips floor system. SK-S8420 Granitex Color Chips are available in 12 color blends (sizes 1/8” or 1/4” or 5/8”).

1. Apply SK-E100 water-based primer at a rate of 250 – 275 square feet per gallon, allow to cure.
2. Apply SK-P100 Pigmented receiving coat at a rate of 300 – 325 square feet per gallon and immediately broadcast lightly SK-8420 Granitex Color Chips into wet receiving coat.
3. After the receiving coat has cured:
4. Sweep up excess chips.
5. Aggressively scrape with drywall type scraper.
6. Sweep again and vacuum loose chips.
7. Apply SK-P100 Clear or Satin at a rate of 300 - 325 square feet per gallon.
   1. Physical Properties:

|  |  |  |  |
| --- | --- | --- | --- |
| TYPICAL PHYSICAL PROPERTIES | | | |
| 7 Days at 750F (240C) Resin and Hardener | | | |
|  | | | |
| 1. | | Gloss, 60 degree | ASTM D523 | Clear Gloss 90 – 95 |
| Clear Satin 50 - 60 |
| 2. | | Tensile Strength | ASTM D882 | 8,000 psi |
| 3. | | Tensile Elongation | ASTM D882 | 10 % |
| 4. | | Flexibility 1/8 Inch | ASTM D522 | Passes |
| 5. | | Sward Hardness | ASTM D2134 | 30 |
| 6. | | Pencil Hardness | ASTM D3363 | 2H – 3H |
| 7. | | Adhesion to Concrete | ASTM D7234 | 300 psi |
| 8. | | Abrasion Resistance | ASTM D4060 | 34 mg lost |
| 9. | | Impact Resistance (160 inch-pounds, direct and reverse) | ASTM D2794 | Passes |
| 10. | | Water Absorption | ASTM D570 | 0.10% Maximum |
| 11. | | Flammability (Bonded to Concrete) | ASTM D635 | Self-Extinguishing |
| 12. | | Microbial Resistant | ASTM G21 | Passes Rating #1 |

* 1. Mix
     1. Mix all components in accordance with the material manufacturer’s Application Instructions.

**PART 3 – EXECUTION**

* 1. Inspection:
     1. Examine areas to receive the Granitex Light Broadcast System:

1. Pre-existing defects in the concrete or cementitious overlayments substrate must be corrected.
2. Deviation from the concrete and cementitious overlayment part of this Specification requires resolution prior to placement of the Granitex Light Broadcast System.
3. If the substrate is found to be in non-conformity of (concrete or cementitious overlayment) the substrate specification, correct the non-conforming substrate prior to placement if the Granitex Light Broadcast System.
4. The installer shall start work after other trades have corrected the defects.
   1. Installation:
      1. Substrate:
5. Prepare the substrate to receive Granitex Light Broadcast System in accordance with the manufacturer’s recommendation and Application Instruction.
   * 1. Placing the Granitex Light Broadcast System:
6. Mix and place per manufacturer’s Application Instructions.
7. Work shall be inspected and accepted, or a punch list of corrections shall be issued by the General Manager or Project Manager or Owner or End-User.

* 1. Cure and Protection:
     1. Protect Granitex Light Broadcast System from damage from other trades in accordance with the material manufacturer’s recommendations.
  2. Cleaning:
     1. Cleaning Granitex Light Broadcast System in accordance with the material manufacturer’s recommendation.
     2. Cleaners not recommended by the material manufacturer may have a deleterious effect on the appearance (color, gloss, etc.) or they may affect the performance (softening, loss of texture, etc.). Prior to using a cleaner not recommended by the material manufacturer, test the cleaner in an isolated area to determine its affect.

**END OF SECTION**

**This Specification was prepared by:**

**Arizona Polymer Flooring  
4565 W. Watkins St.**

**Phoenix, AZ 85043**

**626-435-2277**