1. **GENERAL**
   1. **SUMMARY**
      1. Provisions of Division 01 apply to this section.
      2. Section Includes:
         1. Epoxy floor coating as indicated.
      3. Related Sections:
         1. Section 03 30 00: Cast-In-Place Concrete.
   2. **SUBMITTALS**
      1. Product Data: Submit manufacturer's product literature.
      2. Material Samples:
         1. Submit manufacturer's standard color chart of at least 12 colors.
         2. Submit minimum 12 inch x 12 inch Sample boards indicating finish texture within fine to medium range. Work (installed floor coating) must conform to the finish texture of the Sample board.
         3. For kitchen floors, submit two additional submittal packages of the color chart and Sample Boards.
      3. Installation Instructions: Submit manufacturer's recommended installation methods.
   3. **QUALITY ASSURANCE**
      1. Qualifications:
         1. Manufacturer: Epoxy floor coating shall be product of a manufacturer who has been regularly engaged in manufacture of material for at least 10 years and who can provide references of at least 5 installations in which this material has been in satisfactory service for at least 3 years.
         2. Installer: Trained and certified by manufacturer of material specified shall perform the Work under this section.
   4. **PRODUCT HANDLING**
      1. Materials shall be delivered to the Project site in manufacturer's unopened containers bearing manufacturer's labels and date of manufacture.
      2. Materials shall be stored in a dry, enclosed area protected from exposure to moisture. Temperature of storage area shall be maintained between 60 and 90 degrees F.
      3. Materials furnished shall be factory pre-weighed and pre-packaged in single, easy-to-manage batches.
   5. **PROJECT CONDITIONS**
      1. Concrete substrate shall have cured a minimum of 30 days, utilizing a dissipating curing membrane.
   6. **WARRANTY**
      1. Manufacturer shall provide a 2 year material warranty.
      2. Installer shall provide a 2 year labor warranty.
2. **PRODUCT**
   1. **MANUFACTURER**
      1. Epoxy floor coating shall be Stoneshield HRI by Stonhard, Inc., of Maple Shade, NJ, or equal.
   2. **MATERIALS**
      1. Epoxy floor coating shall meet the following minimum standards:
         1. Compressive Strength: ASTM C 579; 10,000 psi.
         2. Tensile Strength: ASTM C 929; 72,000 psi.
         3. Flexural Strength: ASTM C 580; 4,300 psi.
         4. Flexural Modulus of Elasticity: ASTM D 790; 2,000,000 psi.
         5. Hardness: ASTM D 2240; 85-90.
         6. Bond Strength: 400 psi.
         7. Indentation: MIL-D-3134F; no indentation.
         8. Coefficient of Friction: ASTM D 2047; 0.7.
         9. Flammability: ASTM D 635; Self-extinguishing extent of burning, 0.25 inch maximum.
         10. Water Absorption: ASTM C 413; 0.1 percent.
         11. Nominal Thickness: 3/16 inch.
         12. Abrasion Resistance: ASTM D 1044; 0.09 gm. maximum loss.
3. **EXECUTION**
   1. **EXAMINATION**
      1. Examine areas and conditions under which Work of this section will be installed. Do not proceed until unsatisfactory conditions have been corrected.
   2. **PREPARATION**
      1. Prepare concrete and scrub floor to remove laitance and open concrete pores.
      2. Provide manufacturer recommended penetrating primer for each type of substrate.
      3. Concrete slabs above grade shall be waterproofed with sealant system recommended by manufacturer.
   3. **INSTALLATION**
      1. Floor installation shall comply with manufacturer's instructions and directions, as reviewed.
      2. Areas shall be chased where installed floor does not abut a vertical surface. Chase shall be 3/4 inch wide chiseled to a straight, saw-cut 1/4 inch depth.
      3. Where indicated, install an integral cove base of indicated height. Coves shall be capped with cove strip provided by manufacturer.
      4. Where indicated, expansion and control joints shall be saw-cut after floor installation and filled with flexible epoxy or urethane sealant systems.
      5. Sealing: Install topcoat sealer over epoxy floor and base coatings.
      6. Install floor strips where indicated to create cold joints.
   4. **CLEANING**
      1. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.
      2. Upon completion of the Work of this Section, clean spattered adjacent surfaces. Remove spattered coatings by washing, scraping or other proper methods, using care not to scratch or otherwise damage adjacent finished surfaces.
   5. **PROTECTION**
      1. Protect related and adjacent Work, whether to be coated or not, against damage from coating operations. Correct damaged Work by cleaning, repairing or replacing, and recoating as necessary. Leave Work in an undamaged condition.
      2. At completion of related Work, touch-up and restore damaged or defaced coating surfaces.
      3. Protect the Work of this section until Substantial Completion.

**END OF SECTION**