

- G. System Chemical Resistance: Test specimens of cured polyaspartic floor coatings systems are unaffected when tested according to manufacturer's Chemical Resistance Chart per ASTM-D 1308 spot testing.

PART 3 – EXECUTION

3.1 PREPARATION

- A. General: Prepare and clean substrates according to manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for application.
- B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with polyaspartic floor coatings.
1. Roughen concrete substrates as follows:
 - a. Grind surfaces with an apparatus that abrades the concrete surface to a profile as specified by system application guide.
 2. Repair damaged and deteriorated concrete according to polyaspartic floor coating manufacturer's written instructions.
 3. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
 - a. Perform anhydrous calcium chloride test, ASTM-F 1869. Proceed with application of polyaspartic floor coating only after substrates have maximum moisture-vapor-emission rate of **[3 lb of water/1000 ft.² (1.36 kg of water/92.9 m²)]** of slab area in 24 hours.
 - b. Perform plastic sheet test, ASTM-D 4263. Proceed with application only after testing indicates absence of moisture in substrates.
 - c. Perform relative humidity test using in situ probes, ASTM-F 2170. Proceed with installation only after substrates have a maximum **[75]** percent relative humidity level measurement.
 4. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C. Polyaspartic Materials: Mix components and prepare materials according to manufacturer's written instructions.
- D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
- E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through polyaspartic floor coating according to manufacturer's written instructions.

3.2 APPLICATION

- A. General: Apply components of polyaspartic floor coating system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
 - 1. Coordinate application of components to provide optimum adhesion of polyaspartic floor coating system to substrate, and optimum inter-coat adhesion.
 - 2. Cure polyaspartic floor coating system components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
 - 3. At substrate expansion and isolation joints, comply with manufacturer's written instructions.
- B. Apply body coat over prepared substrate at manufacturer's recommended spreading rate.
- C. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.
 - 1. Integral Cove Base: **[4 in. (100 mm)]** high.
- D. Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer.

3.3 CURING, PROTECTION, AND CLEANING

- A. Cure according to manufacturer's instructions.
- B. Protect polyaspartic floor coating system from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by manufacturer.
- C. Clean polyaspartic floor coating system using materials and procedures recommended by manufacturer.

END OF SECTION