

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this Section.

1.02 WORK INCLUDED

A. Provide materials, labor and equipment required to prepare designated floor area and install resinous surfacing as shown on drawings.

B. Related Work:

1. Section 03300; Concrete Work, for concrete substrate

1.03 QUALITY ASSURANCE

A. Provide single source responsibility for product and installation.

B. Floor thickness verification: At (Specifier's) (Owner's) discretion and direction, take ___ random cores, through system to substrate, prior to applying seal coat, to verify proper floor thickness.

1. Repair cored areas to match surrounding surface prior to applying final seal coat.
2. Remove and replace areas with less than specified thickness, in matter that does not affect aesthetics or integrity of overall floor.

1.04 SUBMITTALS

A. Manufacturer's data for flooring system, including the following:

1. Physical properties.
2. Performance properties.
3. Specified tests.
4. Material Safety Data Sheet.

System will be evaluated on the basis of these standards. For tests not listed in published data, manufacturer shall supply missing data according to referenced standard.

B. Manufacturer's standard single source warranty in accordance with Section 1.05 Warranty.

C. Contractor Experience: Furnish list of at least (3) three projects using material specified or similar for this project that applicator has installed during the past 5 years. Include the following:

1. Project name.
 2. Flooring system.
 3. Square footage of flooring installed.
 4. Contact name with Owner address and phone number.
 5. Resumes of key project personnel including supervisors and technicians.
- D. Manufacturer's standard color charts for preliminary selection purposes.
- E. Three 6" x 6" system samples for verification purposes and finish texture approval.

1.05 WARRANTY

A. Furnish manufacturer's written single source warranty covering material and labor on work in this Section, for period of one year after installation, warranting against loss of bond and wear-through to concrete substrate, through normal wear and tear.

1.06 DELIVERY, HANDLING AND STORAGE

- A. Deliver materials in manufacturer's undamaged, unopened containers, clearly marked with the following.
1. Product Name
 2. Manufacturer's name
 3. Component designated (A or B, etc.)
 4. Ratio of component mixture
- B. Handle materials by methods which prevent damage.
- C. Inspect direct jobsite deliveries to assure that quantities are correct and that materials comply with requirements and are not damaged.
- D. Replace, at no cost to Owners, material found to be defective in manufacturing or that was damaged in transit, handling or storage.
- E. Store materials per manufacturer's instructions and as follows:
1. Seals and labels shall be intact and legible.
 2. Temperature of storage area shall be maintained between 60 degrees F. ($16^{\circ}C$) and 90 degrees F ($32^{\circ}C$).
 3. Do not use materials which have been stored for a longer period of time than the manufacturer's maximum recommended shelf life.

1.07 JOB CONDITIONS

- A. Manufacturer's associate shall, following surface preparation:
1. Evaluate slab condition, including slab moisture content and extent of repairs required, if any.
 2. Test concrete substrates to verify that slab moisture content does not exceed that recommended by flooring manufacturer.
- B. Protect surrounding substrates and surfaces, as well as in-place equipment from damage during surface

preparation and system application.

- C. Job area shall be free of other trades during floor installation, and for a period of 48 hours upon completion.
- D. General contractor shall insure that drains in installation area must be working and raised or lowered to actual finish elevation of flooring system.
- E. General contractor shall provide ventilation by use of fans or other devices.
- F. The General contractor shall maintain lighting at a minimum uniform level of 50-60 foot-candles (538-646 lux) in areas where flooring system is being installed. If possible, schedule flooring installation so that permanent lights will be in place and working during installation.
- G. General contractor shall ensure that leaks from pipes and other sources are corrected prior to flooring installation.
- H. General contractor shall provide minimum substrate and atmospheric temperature of 65 degrees F. ($18^{\circ}C$) and relative humidity below 85% during installation and until final acceptance.
- I. General contractor shall provide protection from other trades prior to final acceptance of owner.

PART 2 - PRODUCTS

2.01 MATERIALS

A. System Overview

(Refer to and insert information from the Product Description Section of appropriate STI Standard System Data or Custom System Selector Sheet.)

B. Technical Data

(Refer to and insert information from appropriate STI Standard System Data or Custom System Selector Sheet.)

PART 3 - EXECUTION

3.01 SURFACE PREPARATION

A. Prepare concrete to "open" surface pores by means of vacuum-blasting, removing contaminants and bond breaking substances, including but not limited to dust, latencies, curing compounds, coatings, sealers, oil and grease. Oil and grease not removed by vacuum-blasting shall be chemically removed. Mechanically remove delaminated or deteriorated concrete by scabbing or chipping hammers. Areas to be patched shall be saw cut to minimum 1/2" (1.28 cm) depth at perimeters and keyed to existing concrete. (For thorough instructions regarding preparation of concrete and non-concrete substrate, consult STI "Instruction for Surface Preparation".)

B. Cracks and Non-Expansion Joints

General Contractor (new construction); Resinous Surfacing Contractor (retrofit) shall:

1. Clean and fill cracks and non-expansion joints less than 1/16" (.16 cm) wide with STI semi-rigid epoxy.
2. Rout, saw out or rake-out cracks and non-expansion joints greater than 1/16" (.16 cm) wide after surface preparation, and fill with STI semi-rigid epoxy. Filled cracks or joints shall have fiberglass cloth or flexible urethane "band-aid" applied over them to further inhibit cracks from telegraphing through epoxy. If control joints are cracked through slab and additional movement is anticipated, consult Design Professional and Resinous Surfacing Manufacturer for specific remedial action.

3.02 APPLICATION

A. Apply each component of flooring system per manufacturer's installation instructions, including mixing and application. Apply flooring directly over non-expansion joints and cracks which have been treated with semi-rigid epoxy. Terminate flooring at edge of expansion joints, as designated by Design Professional. Install integral cove base of walls unless otherwise indicated on drawings.

B. Cure resinous flooring materials in compliance with manufacturer's directions.

3.03 CLEANING AND PROTECTION

A. Cleaning

Remove all debris resulting from the flooring installation during the progress of the work.

B. Protection

General contractor shall provide protection from other trades prior to final acceptance by owner.

Important Notice

This document has been prepared as general information to help owners, design professionals and construction managers design, specify and complete successful projects. While the information in this document is based on sources and procedures which sti believes reliable, construction project results depend upon the specific circumstances of each project and cannot be guaranteed. This document is not intended to replace the knowledge and experience of construction professionals, nor does this document constitute an assumption by sti of responsibility for the specification of construction projects or resinous surfacing installations, nor any warranty or any other contract on sti's part. sti's product warranty is made solely on the sti Single Source Warranty for Labor and Material, which is available from your sti Associate Contractor.

End of Section