

S.405 – SPECIFICATION: Concrete Surface Restoration

Revised: 3/15/21 Version: 1.0

PART I - GENERAL

Scope

1. Provide all labor, materials and equipment necessary to apply the desired ELITE CRETE SYSTEMS finish and sealer over horizontal concrete surfaces. This specification includes application over concrete on grade and concrete decks.

Related Sections

1. ELITE CRETE SYSTEMS Product Binder including:
 - Product Information Sheets
 - Technical Data Sheets
 - Material Safety Data Sheets
 - And all other product and application instructions.

Description

1. ELITE CRETE SYSTEMS products consist of proprietary blends of high performance polymer formulations, cement, aggregates, sealer resins, stains & pigments intended to be used as a decorative and restoration coatings and finishes.

Submittals

1. Samples
 - a. The contractor shall make and submit two, 2'x2' sized samples of the proposed finish to the architect, project manager and/or owner for approval.
 - b. Manufacturer's product information and specifications.

Quality Assurance

1. Qualifications
 - a. Manufacturer shall be ELITE CRETE SYSTEMS.
 - b. The contractor/installer shall be listed with ELITE CRETE SYSTEMS as a trained contractor and shall possess a current ELITE CRETE SYSTEMS trained contractor certificate.
2. Substrates
 - a. ELITE CRETE SYSTEMS products shall be applied over the following horizontal concrete substrates when prepared in accordance with this specification and the ELITE CRETE SYSTEMS Product Information Sheets pertaining to the desired finish.
 - Concrete on Grade
 - Concrete Decks
 - Other approved substrates (inspected by ELITE CRETE SYSTEMS Staff Engineer)
 - b. All concrete decks shall be sloped for positive drainage a minimum of 1/8" per linear foot.
 - c. The contractor/installer shall verify that the proposed substrate has been properly prepared in accordance with the ELITE CRETE SYSTEMS Product Information Sheet pertaining to the desired finish, prior to application of the ELITE CRETE SYSTEMS finish.

Delivery, Storage and Handling

1. All materials shall be delivered to the job site in the original, unopened packages with labels intact. Upon arrival, materials shall be inspected for physical damage or freezing. Questionable materials shall not be used.
2. Minimum storage temperature shall be 40° F. Maximum storage temperature shall be 100° F. All materials shall be stored in a dry location, out of direct sunlight and protected from weather and other damage in accordance with material safety data sheets.

Job Conditions

1. Existing conditions: The contractor/installer shall have access to electric power, clean potable water and a clean work area at the location where the ELITE CRETE SYSTEMS materials are to be applied.
2. Environmental Conditions:
 - a. The ambient air and surface temperature shall be a minimum of 45° F and a maximum of 110° F and shall remain so for at least 24 hours.
3. Protection
 - a. Adjacent areas and materials shall be protected from damage, drops, and spills.
 - b. The ELITE CRETE SYSTEMS materials shall be protected by permanent or temporary means from weather and other damage, prior to, during, and immediately after application. Care must be taken to prevent condensation and/or heat build up when using a tarp or plastic as protection.
4. Sequencing and Scheduling
 - a. Application shall be coordinated with other construction trades.
 - b. Sufficient labor and equipment shall be employed to ensure a continuous operation.

Design Responsibility

1. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for their intended use. The purchaser shall be responsible for all decisions pertaining to design. ELITE CRETE SYSTEMS has prepared guidelines in the form of specifications, application instructions, and product sheets to facilitate the design process only. ELITE CRETE SYSTEMS is not liable for any errors or omissions in design, whether based upon the information prepared by ELITE CRETE SYSTEMS or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to ELITE CRETE SYSTEMS published comments.

Maintenance

1. The ELITE CRETE SYSTEMS finish shall occasionally be cleaned and sealed with the ELITE CRETE SYSTEMS Sealer.

PART II - PRODUCTS

General

1. Cementitious Polymer Modified Restoration Products and Sealers shall be supplied by ELITE CRETE SYSTEMS or its authorized distributors. Substitutions or additions of other materials must be approved in writing by ELITE CRETE SYSTEMS personnel.

Components (Not all components are used in all applications. Additional components are available)

1. THIN-FINISH™ Overlay
2. PORTION CONTROL COLORANT™
3. CSS EMULSION™ (exterior use only)

Equipment

1. Mixing shall be one in a clean mixing container with a clean mixing blade by a variable speed drill. Refer to the ELITE CRETE SYSTEMS Product Information Sheet pertaining to the desired finish for a complete list of recommended tools.

PART III EXECUTION

Inspection

1. Examination of Substrate. In accordance with Quality Assurance, Section 2, a thru c.

Substrate Preparation

1. Concrete on Grade and Concrete Decks
 - a. Concrete shall have cured a minimum of 28 days prior to application of the ELITE CRETE SYSTEMS finish.
 - b. All undermined, cracked, spalled, etc. concrete must be repaired prior to applying the ELITE CRETE SYSTEMS finish over the concrete surface.
2. All concrete surfaces must be cleaned to remove all grease, oil, dust, dirt, paint, sealers, efflorescence etc. which may impair the adhesion of the ELITE CRETE SYSTEMS materials. Refer to the ELITE CRETE SYSTEMS Product Information Binder for more information.

Application

1. General
 - a. Refer to the ELITE CRETE SYSTEMS Product Information page pertaining to the desired finish for more information.

Field Quality Control

1. The contractor/installer shall be responsible for the proper application of the ELITE CRETE SYSTEMS materials.
2. ELITE CRETE SYSTEMS assumes no responsibility for on-site inspections or workmanship.

Cleaning

1. All excess ELITE CRETE SYSTEMS materials shall be removed from the job site by the contractor/installer upon completion of each project.
2. All surrounding areas, where the ELITE CRETE SYSTEMS finish has been applied, shall be left free of debris and foreign substances resulting from the contractor's work.

Information contained in this specification conforms to standard detail and product recommendations for the installation of the ELITE CRETE SYSTEMS products as of the date of publication of this document and is presented in good faith.

ELITE CRETE SYSTEMS assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project.

To insure that you are using the latest, most complete information, contact ELITE CRETE SYSTEMS for product and specification updates.

The ELITE CRETE SYSTEMS Contractor Certificate indicates certain employees of the company have been instructed in the proper application of ELITE CRETE SYSTEMS products and have received copies of ELITE CRETE SYSTEMS Application Instructions and Specifications. The ELITE CRETE SYSTEMS Contractor Program is not an apprenticeship. Each contractor is an independent company and bears responsibility for its own workmanship. ELITE CRETE SYSTEMS assumes no liability for the workmanship of an ELITE CRETE SYSTEMS