

Specification Aid

Architectural Polymers Acid Stain

DECORATIVE ACIDIC BASED CONCRETE STAIN AND FINISH

PART 1-GENERAL

SUMMARY

Acidic based stained concrete

SUBMITTALS

Product Data: Submit product data and samples for proprietary materials and items, including acid based stains and sealers, requested by Architect.

Shop Drawings: Submit shop drawings indicating joint spacing and locations.

Design Mixes: Submit design mixes for each class of concrete. Include revised mix proportions when characteristics of materials, projects conditions, weather, test results, or other circumstances warrant adjustments.

Samples: Submit acid stain manufacturer's color chart and sample color chips for color selection. If selection has been made submit sample chips of specified colors indicating cutting ratio if any. Submittals for general color selection may vary somewhat from concrete finished in field according to Specifications.

QUALITY ASSURANCE

Concrete Standards: Comply with provisions of the following standards, except where more stringent requirements are indicated.

American Concrete Institute (ACI) 301, "Section 6 - Architectural Concrete"

ACI 318, "Building Code Requirements for Reinforced Concrete."

ACI 305R, "Hot Weather Concreting."

ACI 306R, "Cold Weather Concreting."

Concrete Reinforcing Steel Institute (CRSI), "Manual of Standard Practice."

ASTM C309, "Liquid Membrane-Forming Compounds for Curing Concrete."

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Installer: Engage an installer/applicator who is company trained by the manufacturer specializing in decorative concrete work for a minimum of 5 years.

Concrete Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.

Concrete Testing Service: Engage a qualified independent testing agency to perform materials evaluation tests and to design concrete mixes.

Field-Constructed Mockup: Prior to installation of acid based stain work, erect sample panels in place to further verify selections.

Provide 24 SF mock-up. Construct at least one month before start of other concrete Work to allow concrete to cure before observation.

Mockup shall demonstrate each forming and finishing condition required on Project using materials, workmanship, joint treatment, form ties, curing method and patching techniques to be used throughout Project.

Retain samples of cements and aggregates used in mock-up for comparison with materials 21 used in remaining work.

When Architect determines that mockup does not meet requirements, demolish and remove it from the site and cast another until the mockup is accepted.

Keep accepted mockup undisturbed during construction as a standard for judging completed work.

Demolish accepted mockup and remove from site or undamaged mockup may be incorporated into the Work, when directed by Architect.

Pre-installation Conference: Conduct conference at Project site .

Before installing acidic based stained concrete, meet with representative of authorities having jurisdiction, Owner, Architect, Consultants, Independent Testing Agency and other 37 concerned entities, to review requirements. Notify participants at least 3 working days before conference.

Delivery, Storage and Handling:

Obtain each material from the same source to maintain a high degree of consistency in workmanship, throughout Project.

Store stain and sealer in a dry area with a temperature above freezing.

PART 2 – PRODUCTS

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MATERIALS

Acidic based Stain: Pre-packaged acidic based stain containing colorfast metallic salts. Color as selected by Architect from manufacturer's standards, unless indicated otherwise.

Manufacturer: **Architectural Polymers Acid Stain** by SureCrete Design Products, Inc.; phone (800) 544-8488.

Packaging: **Architectural Polymers Acid Stain** will be packaged in one and five gallon, ready to use, containers.

ACCESSORIES

Sealer: Acrylic based sealer manufactured by SureCrete Design Products Inc.

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PART 3 - EXECUTION

STAINING

Acidic Based Stain: Stain shall be applied per manufactures direction on a clean concrete surface that is a minimum of 14 days old. When stain is applied over an overlay system the surface must be a minimum of 2 days old. All staining techniques must be the same as the approved mock-up. Variegated appearance of stained concrete is acceptable and expected.

SEALING

Seal Decorative Surface: **AP Sealer** shall be applied as per manufactures directions, after the surface has thoroughly dried.