

GUIDE SPECIFICATION

Manufacturer:

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SECTION 03530

DECORATIVE CONCRETE TOPPING

This guide specification has been prepared by QC Construction Products, in printed and electronic media, as an aid to specifiers in preparing written construction documents for a polymer modified decorative topping mix which can be installed both interior and exterior, down to a feather edge in thickness, in 25 standard colors, and can be decorated using imprinting and stamping tools to create a pattern in the final appearance.

Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. Where a value, word, or phrase is followed by a bracket, the preferred value, word, or phrase occurs first, with the other choices following inside the brackets. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements.

This guide specification is written around the Construction Specifications Institute (CSI), Section Format standards references to section names and numbers are based on MasterFormat 95.

For specification assistance on specific product applications, please contact our offices above or any of our local product representatives throughout the country. Additional technical information is available in our CSI formatted Product Information Bulletins.

QC Construction Products reserves the right to modify these guide specifications at any time. Updates to this guide specification will be posted to the manufacturer's web site and/or in printed matter as they occur. QC Construction Products makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.1 SUMMARY

- A. Provisions established within the General and Supplementary Conditions of the Contract, Division 1 - General Requirements, and the Drawings are collectively applicable to this Section.

1.2 SECTION INCLUDES

Edit the "Section Includes" paragraph to briefly describe the content of the section. After editing section, refer back to this paragraph to verify no conflicts occur.

- A. Polymer modified cementitious material applied decorative concrete topping [with integral colorant] [and imprinted with decorative pattern].
- B. Curing and sealing.

1.3 RELATED SECTIONS

Sections paragraph below to suit project requirements; Delete sections that will not be used.

- A. Section 07920 - Joint Sealants: Sealant for joints.

1.4 QUALITY ASSURANCE

Include quality assurance requirements below which are consistent with the size and scope of the project and extent of work of this section. Only request qualification statements you intend to review, and which are necessary to establish qualifications of the product, manufacturer, or installer.

- A. Perform work in accordance with ACI 301, 302 and 304.
- B. Obtain materials from same source throughout.
- C. Applicator Qualifications: Performed by firm with 3 years minimum experience in application of sealer required for Project.

1.5 SUBMITTALS

Include submittal requirements below which are consistent with the scope of the project and extent of work of this section. Only request submittals which are necessary for review of design intent.

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings.

- A. Submit product data under provisions of Section 01300.
- B. Include data on each product proposed for use.
- C. Submit manufacturer's instructions under provisions of Section 01300.
- D. Provide field samples of surface finish, [color,] [texture,] [and patterns] specified for architect approval prior to beginning work, 48 x 48 inch in size illustrating floor finishes.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not place QC Thin-Pave NI when base surface or ambient temperature is less than 40 degrees F, or if this condition is anticipated within 15 days after installation. Do not place topping if it is anticipated that ambient or surface temperatures might drop below 33° F within the next 15 day increment or after initial 15 day cure period.
- B. Do not place QC Thin-Pave NI during excessive heat and wind conditions.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of Section 01600.

1.8 SEQUENCING AND SCHEDULING

- A. Schedule application of products at proper time intervals after new concrete finishing and curing operations.
- B. Do not place QC Thin-Pave NI until freshly placed concrete substrate has fully cured 28 days.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Concrete Topping: Non-shrinking, troweled down, polymer modified cementitious based formulation, QC Thin-Pave NI by QC Construction Products.

Retain A.1 below for integral color topping.

- 1. [Provide integrally colored in [one of manufacturer's standard colors] [custom color].

- B. Water: Drinkable and not detrimental to concrete topping.
- C. Bonding Agent/Crack Fillers: Type recommended by concrete topping manufacturer for use over substrate encountered.
- D. Primer/Bonding Agent: Type as recommended by manufacturer.
- E. Joint and Crack Filler: Latex based.
- F. Sealer:

Select one of the options in F1 below for either interior or exterior use. QC Construction Products has a broad line of concrete sealers to enhance the beauty of stained concrete and minimize the damaging effects of petroleum based contaminants and overall effect of weathering. Refer to manufacturer's product usage recommendations. Contact manufacturer for suggested maintenance coatings for periodic renewal of finish. The following is a brief description of each sealer recommended for chemically stained concrete:

QC Ultra Seal or Solvent Seal VOC III: Solvent based, non-yellowing, penetrating sealer, to protect against dusting, staining, and dirt.

QC Solvent Seal 18 or 27: Same as above, but does not comply with some VOC regulations.

QC Cemseal: Water based, 100% acrylic emulsion, with excellent resistance to penetration of oil, gas, and water.

QC Surpro WB: A two-part polyurethane that forms a high-solids coating. WB = Water-Based. This is the most durable sealer of all the QC Sealers.

QC Interior Floor Finish: A water-based, high-solids sacrificial finish to be used as a maintenance topcoat for interior architectural or gray concrete

surfaces *****

1. Sealer:
 - a) [QC Ultra Seal by QC Construction Products.]
 - b) [QC Solvent Seal VOC III by QC Construction Products.]
 - c) [QC Solvent Seal 18 or 27 by QC Construction Products.]
 - d) [QC Cemseal by QC Construction Products.]
 - e) [QC Surpro WB by QC Construction Products.]
 - f) [QC Interior Floor Finish by QC Construction Products.]

Retain AG @ below if a decorative pattern is desired.

- G. Imprinting Tools and Accessories:
 1. Mat type imprinting tools for texturing freshly placed concrete, in [running bond brick] [cobblestone] [flagstone] [weathered wood] [quarried stone] [_____]
[custom pattern/texture as selected by Architect.]
 2. Release powder, composed of a dry blend of chemical powders and color pigments, designed to provide clean release of texturing tools and mats, provided in [same] [contrasting] color as primary concrete color selected, equal to QC Release Powder by QC Construction Products.]]

2.2 JOINT FILLERS

Select A.1 for applications where puncture resistance of horizontal joints is not a requirement. Select A.2 for areas where a shore A modulus of 40 is desirable for horizontal joints subject to frequent foot traffic.

- A. Sealants: Two part polyurethane sealants, of grade as required to suit application, meeting ASTM C920, in manufacturer's [standard] [custom] colors, and as follows:
 1. Urethane, SL grade, as specified in Section 07920.
 2. Urethane, SL-TB grade as specified in Section 07920

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine conditions and proceed with Work in accordance with Section 01400.

- B. Verify that surfaces are clean, dry, dust free, and free of efflorescence, oil, salts, or other matter detrimental to topping application.
- C. Do not place topping mix over substrates which exhibit excessive ground water, including slabs subject to hydrostatic pressure.

3.2 PREPARATION

- A. Prepare surfaces in accordance with manufacturer's directions.
- B. Provide protection as necessary to protect adjacent materials and surfaces from dirt, dust, spillage, and other surface or physical damage.
- C. Mix pre-packaged materials in accordance with manufacturer's recommendations.
- D. Apply QC Liquid Bond Coat to surface as recommended by manufacturer. Allow QC Liquid Bond Coat to become tacky, but not dry.

3.3 INSTALLATION

- A. Install QC Thin-Pave NI concrete topping in accordance with manufacturer's instructions to indicated minimum and maximum thicknesses.
- B. Finish concrete floor surfaces in accordance with ACI 301, using manufacturer's approved gauge rake and normal finishing tools.
- C. Uniformly spread, screed, and float concrete. [Apply topping to a minimum thickness of 3/8 inch is subsequent for imprinting.]
- D. Provide finishes, textures, [and patterns] to match approved samples at locations indicated.

3.4 CURING AND SEALING

- A. Air cure in accordance with manufacturer's instructions.
- B. Apply sealer in accordance with manufacturer's recommendations.

3.5 PROTECTION OF FINISHED WORK

- A. Protect finished Work under provisions of Section 01500.
- B. Do not permit traffic over unprotected floor surface.

END OF SECTION