SECTION 04 05 13

MORTAR PIGMENTS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Solomon Colors; admixtures and colorants.  
This section is based on the products of Solomon Colors, which is located at:  
4050 Color Plant Rd.  
Springfield, IL 62702-1060  
Toll Free Tel: 800-624-0261  
Tel: 217-522-3112  
Fax: 800-624-3147  
Email: [request info (sgs@solomoncolors.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Solomon+Colors&coid=35596&rep=&fax=800-624-3147&message=RE:%20Spec%20Question%20(04065sol):%20%20&mf=)  
Web: <http://www.brickform.com> | <https://www.day1finishingaid.com>   
 [ [Click Here](https://www.arcat.com/arcatcos/cos35/arc35596.html) ] for additional information.  
As a global leader, Solomon Colors has provided service and quality to our customers for over seven decades while remaining family-owned and employee-owned. Innovation and solutions go hand in hand at Solomon Colors, with research and development as our core focus, beginning with our start grinding iron ore for the building industry in the early 20th century, to our patented formulas for mortar and concrete pigments. When our customers needed a better way to dispense pigments, we created our ColorSelect systems for dry and liquid color. From equipment, to color, to training - every improvement we make is about meeting our customers' needs to help you do your business better.  
You can depend on Solomon Colors: our color, our quality and our service every time.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* This section covers Solomon Colors SGS Concentrated A, H, and X Series Mortar Colors. Coordinate this section with the section specifying the masonry mortar. Consult Solomon Colors for assistance in editing this section for the specific application.

* + 1. Iron oxide pigments to be added to masonry mortar.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 04 05 13.23 - Surface Bonding Masonry Mortaring.
    2. Section 04 20 00 - Unit Masonry.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM C 91 - Standard Specification for Masonry Cement.
    2. ASTM C 270 - Standard Specification for Mortar for Unit Masonry.
    3. ASTM C 979 - Standard Specification for Pigments for Integrally Colored Concrete.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete samples if colors have already been selected.

* + 1. Samples: Submit manufacturer's samples of standard colors in mortar color channels as actual representation of color units mixed with light gray prepared masonry cement or equivalent Portland and lime mortar mix plus light tan builders' sand and water.
    2. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
    3. Warranty: Submit manufacturer's standard warranty.
  1. QUALITY ASSURANCE
     1. Manufacturer's Qualifications:
        1. Sufficient plant facilities to provide quality and quantity of iron oxide pigments as required without delaying progress of the Work.
        2. Minimum of 10 years' experience in producing iron oxide pigments to be added to masonry mortar.
     2. Installer Qualifications: Minimum 2 year experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide quantity and color of pigments required for use in construction of mock-up panels for evaluation of surface preparation techniques and application workmanship.
  1. PRE-INSTALLATION MEETINGS
     1. Convene minimum two weeks prior to starting work of this section.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Delivery: Deliver pigments to site in manufacturer's original sealed unit bags, with labels clearly identifying product name, manufacturer, color name and number, weight, and mixing instructions.
     2. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep bags sealed until ready for use.
     3. Handling: Protect pigments during handling and mixing to prevent damage or contamination.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. SEQUENCING
     1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Solomon Colors, which is located at: 4050 Color Plant Rd.; Springfield, IL 62702-1060; Toll Free Tel: 800-624-0261; Tel: 217-522-3112; Fax: 800-624-3147; Email: [request info (sgs@solomoncolors.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Solomon+Colors&coid=35596&rep=&fax=800-624-3147&message=RE:%20Spec%20Question%20(04065sol):%20%20&mf=); Web: <http://www.brickform.com> | <https://www.day1finishingaid.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. MORTAR PIGMENTS
     1. Pigments: SGS Concentrated A, H, and X Series Mortar Colors.

\*\* NOTE TO SPECIFIER \*\* Specify the color name and number. Consult Solomon Colors for availability of custom colors.

* + - 1. Color:
         1. Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
         2. Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
      2. Material: Natural and synthetic, milled, blended iron oxides.
      3. Carbon added for darker colors shall not exceed 4 percent.
      4. Produce uniform and consistent color.
      5. Inert, stable to atmospheric conditions, sunfast, weather resistant, alkali resistant, water insoluble, lime proof, and nonbleeding.
      6. Free of deleterious fillers and extenders.
      7. Particle Size: 95 to 99 percent minus 325 mesh.
      8. pH: 6.5 to 9.0.
      9. Compliance: ASTM C 979.
      10. Tests: ASTM C 91 and ASTM C 270. Exceed 1,800 psi (12.4 kPa) at 28 days strength requirement.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. MIXING
      1. Mix pigment with masonry mortar in accordance with manufacturer's instructions.
      2. Add proper number of pigment color units to mortar mix in accordance with manufacturer's table.
      3. Mix materials with mechanical mixer.
      4. Load mixer in accordance with manufacturer's instructions. Do not load mixer beyond recommended capacity.
      5. Ensure uniform color and workability of colored mortar.
      6. Ensure source, brand, type, color, and weight of Cementitious materials and sand is consistent throughout project.
      7. Ensure quantity of water is consistent throughout project. Do not re-temper colored mortar with addition of water.
   4. TOOLING JOINTS
      1. Ensure color consistent mortar joints by tooling in accordance with manufacturer's instructions.
   5. PROTECTION
      1. Inhibit moisture in masonry assembly to avoid conditions for occurrence and recurrence of efflorescence in accordance with manufacturer's instructions.
      2. Keep masonry assembly dry during construction by covering at end of each day with waterproof covering.
   6. CLEANING
      1. Clean masonry assembly of masonry stains and efflorescence in accordance with manufacturer's instructions.
      2. Ensure colored mortar has sufficiently cured before cleaning.
      3. Use masonry cleaner approved by pigment manufacturer and Architect.
      4. Apply cleaner in accordance with cleaner manufacturer's instructions.

END OF SECTION