

# TECHNICAL SPECIFICATION DATA

**BASIC USE:** Solomon Colors, Inc., SGS, Concentrated Mortar Colors are pure mineral pigments designed to be used with all cementitious material whether it may be type N, S, M or O strength masonry cement or portland and lime mixtures. The pre-measured unit concept of SGS colors provides uniform color control with the cost saving flexibility of utilizing local masonry and/or portland and lime cements to achieve the proper strength and mix design for brick, block, stucco or stone unit construction. Since 18-20% of the visual surface of the average brick wall is mortar, the proper selection and use of an appropriate mortar color will dramatically enhance the visual impact and beauty of the masonry wall.

**COMPOSITION & MATERIALS:** SGS colors are products of pure natural and/or synthetic iron oxides which are finely milled (95 - 99% minus 325 mesh particle size) and blended under strict quality control procedures producing uniform and consistently strong tinting strength for maximum coloring power. Each SGS color exceeds the requirements set forth by ASTM C-979 "Pigments For Integrally Colored Concrete." SGS colors are inert, stable to atmospheric conditions, sunfast, weather resistant, alkali resistant, water insoluble, lime proof, non-bleeding natural and synthetic iron oxides free of deleterious fillers and extenders.

**SPECIFICATION PROCEDURES:** As detailed in the table, select the proper ASTM C-270 masonry mix design of Type N, S, M or O compressive strength for the masonry unit construction. Then, depending upon the masonry mix design, select the appropriate SGS color and specify the number of units to be added to the mortar mix.

**PACKAGING:** All SGS Concentrated Mortar Colors are packaged in sealed unit bags. The "A" Series contains 6, "H" Series 12 and "X" Series 18 color

unit bags per case. Each case contains enough color to lay approximately 900 ("A"), 1800 ("H") and 2700 ("X") standard size bricks respectively, using a 3/8" (9.5 mm) mortar joint. Each unit bag is clearly identified with color name, number, weight, plus complete mixing instructions.

**COLOR RANGE:** SGS offers a wide color spectrum with A, H and X Series Mortar Colors. This offers precise color tones that are needed to complement or accentuate the broad range of color shades found in brick, stone or colored block. Our Color Laboratory is available at no charge to match existing colored mortar, develop special color tones or to provide expert color assistance to solve your individual color needs.

**MIXING PROCEDURES:** Mortar shall be mixed in a power mixer for a minimum of five (5) minutes or until a uniform color is obtained. Any change in proportioning the amount of color to cement and/or the type of cement, sand or water content can result in a variation of color tone in the finished work. DO NOT load the mixer beyond its recommended capacity. Overloading will reduce mixing efficiency. Request SGS Spec-Data Masonry Mortar 04060 data sheets for complete mixing instructions.

**AVAILABILITY:** SGS colors are readily available from stocks carried by an extensive network of building material dealers throughout the United States and Canada. Solomon Colors Inc. dealers are also backed by reliable 24-hour factory services in processing and shipping of orders. Solomon Colors Inc. has local sales representatives covering each state within the continental United States. For names of local dealers, distributors and sales representatives, contact Solomon Colors Inc. office in Springfield, IL at (217) 522-3112 or (800)624-0261. **COST:** Retail costs for SGS colors are established by stocking or distributing building material

dealers. Costs are influenced by the individual color and color shade desired.

**LIMIT OF WARRANTY & LIABILITY:** Solomon Colors, Inc. warrants their product conforms to the description and standards stated on the product packaging and specific product literature. If properly mixed and applied, Solomon Colors Inc. warrants the Concentrated Mortar Color to be uniform, lime proof and sunfast. The exclusive remedy of the user or buyer and the limit of liability of this company shall be the purchase price paid by the user or buyer for the quantity of the SGS product involved.

**MASONRY CLEANING:** In the event cleaning is required to remove masonry stains and efflorescence, the cleaning operation should be undertaken after the colored mortar has sufficiently cured, generally 7-14 days after the masonry installation. Avoid using hydrochloric (muriatic) acid. Use a commercially prepared "proprietary masonry cleaner" following the directions for the weakest solution recommended by the manufacturer. Request SGS Spec Data Masonry Mortar 04060 data sheets for complete cleaning instructions.

**SAMPLES:** Color pigment samples are available for constructing job site mock-up panels. Contact your local Solomon Colors, Inc. building materials dealer, or Solomon Colors direct at: (217) 522-3112 or (800) 624-0261.

**SGS MORTAR COLOR KIT & CATALOG:** Samples of our standard mortar colors are available in convenient mortar color channels. Each channel is an actual representation of the color units mixed with either light gray prepared masonry cement or equivalent portland and lime mix plus a light tan builders sand and water. The shown Mortar Color Kit and Architectural Products Binder contains complete specification and technical information covering the complete line of SGS mortar and cement colors. Available upon request.

ASTM C270 SPECIFICATION FOR MORTAR Unit Masonry C270 includes the following mortars:	Appropriate number of SGS Color Units to be added with mortar mix		
	"A"Series Color	"H"Series Color	"X"Series Color
<b>Prepared masonry cements, ASTM C91, Types N, S, or M:</b> One 70-80 lb (32-36 kg) bag masonry cement ASTM C91 Type 1: 3 cu ft (.08 m3) sand, STM C144	One A Unit	One H Unit	One X Unit
<b>Portland cement/lime mortars, Type N, 750 psi (5168 kPa):</b> One 94 lb (43 kg) bag portland cement, ASTM C150; One 50 lb (23kg) bag hydrated lime, ASTM C207; 6 cu ft (.17 m3) sand, ASTM C144	Two A Units	Two H Units	Two X Units
<b>Portland cement/lime mortars, Type S, 1800 psi (12,400 kPa):</b> Two 94 lb (43 kg) bags portland cement, ASTM C150; One 50 lb (23kg) bag hydrated lime, ASTM C207; 9 cu ft (.25 m3) sand, ASTM C144; or	Three A Units	Three H Units	Three X Units
<b>Portland cement/lime mortars, Type S, 1800 psi (12,400 kPa):</b> One 94 lb (43 kg) bag portland cement, ASTM C150; Two 70 lb (32 kg) bags masonry cement Type 1, ASTM C91; 9 cu ft (.25 m3) sand, ASTM C144	Three A Units	Three H Units	Three X Units
<b>Portland cement/lime mortars, Type M, 2500 psi (17,225 kPa):</b> Two 94 lb (43 kg) bags portland cement, ASTM C150; 25 lb (11 kg) hydrated lime, ASTM C207; 6 cu ft (.17 m3) sand, ASTM C144; or	Three A Units	Three H Units	Three X Units
<b>Portland cement/lime mortars, Type M, 2500 psi (17,225 kPa):</b> One 94 lb (43 kg) bag portland cement, ASTM C150; One 70 lb (32 kg) bag masonry cement Type 1, ASTM C91; 6 cu ft (.17 m3) sand, ASTM C144	Two A Units	Two H Units	Two X Units
<b>Portland cement/lime mortars, Type O, 350 psi (2412 kPa):</b> One 94 lb (43 kg) bag portland cement, ASTM C150; Two 50 lb (23 kg) bags hydrated lime, ASTM C207; 9 cu ft (.25 m3) sand, ASTM C144	Three A Units	Three H Units	Three X Units



Architectural Products Binder



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