

# CSI Mortar Colors

Technical Data Sheet 28.0509DS

## Description

CSI Mortar Colors are blends of the finest synthetic and natural, inorganic oxides and minerals available. They are designed to be used with any normal masonry cement (Type N, S, M or O), mixtures of Portland cement and lime and most cementitious materials. CSI Mortar Colors are available in a variety of standard colors or can be custom blended to your needs.

## Product Benefits

- CSI Mortar Colors enable the architect, designer or builder to add an additional dimension of artistic design to a traditional masonry surface. With CSI's unique line of mortar colors, one can match, compliment, accent or contrast the color of adjacent materials. Since about 20% of the surface of the average brick wall is mortar, the proper selection and use of mortar color will dramatically enhance the visual impact and beauty of a masonry wall.
- CSI Mortar Colors are blended under strict quality control procedures to insure quality and consistency within each batch as well as from batch to batch. All the pigments comply with ASTM C-979 requirements and are weather and alkali resistant, water insoluble and stable under most atmospheric conditions.

## Pre-Application

CSI Mortar Colors are packaged in pre-weighed bags eliminating all job site weighing or measuring of colors, thereby achieving uniform color control for each mortar batch. Select the proper ASTM C270 masonry mix design of Type N, S, M or O compressive strength for the masonry units construction. Then, depending upon the masonry mix design, select the appropriate CSI Mortar Color and specify the pounds.

## Application

1. A mechanical mixer should be used and sufficient mortar should be mixed at one time for use within a 2-hour period. To provide uniform color and workability, load the mixer as follows:

- Load 3/4 amount of water.
- Load 1/3 amount of sand.
- Add masonry cement or portland and lime mixture.
- Add the appropriate number of CSI Mortar Color Units to the mortar mix.
- Slowly add balance of sand and water, running machine for 5 minutes or more, until a uniform color and desired workability is achieved.
- DO NOT load the mixer beyond its recommended capacity. Overloading will reduce mixing efficiency.

2. If color accuracy is critical, a pre-construction sample utilizing actual job site materials and methods is required.

## Surface Protection and Maintenance

- In the event that cleaning is required to remove stains or efflorescence, an acid based detergent is recommended. Avoid using strong acids like hydrochloric (muriatic) acid. Use a commercially prepared cleaner following the directions from the weakest solution recommended by the manufacturer.

## Limitations and Precautions

- Inconsistencies in jobsite conditions, finishing practices, mortar mix design and slump, and curing methods may produce variations in the color of the finished product.
- Re-tempering of colored mortar with the addition of water should be avoided.
- Water consistency should be maintained throughout the project. The more water, the lighter the color.

## Package Sizes

CSI Mortar Colors are available in pre-weighed paper bags or plastic containers depending on color selected.

## Applicable Standards

American Society for Testing and Materials (ASTM)

- ASTM C91 – Masonry Cement
- ASTM C270 – Mortar for Units Masonry
- ASTM C979 - Pigments for Integrally Colored Mortar/Concrete

## Technical Data

Please refer to the corresponding MSDS for hazard-related information.

## Shelf Life and Storage

CSI Mortar Colors has a shelf life of two years. Store in dry conditions.

## Product Handling

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product.

## Warranty

CSI Mortar Colors a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact ChemSystems, Inc.