



# INCRETE COLOR-CRETE GRANULAR

## ADMIXTURE FOR COLOR CONDITIONED CONCRETE

### PACKAGING

Bulk super sacks

*\*Check with Euclid Chemical for exact weights as they differ per color*

### APPEARANCE

Dried granules in 4 base colors

### CLEAN UP

Sweep or vacuum spilled granules

### SHELF LIFE

4 years in original, unopened container kept in dry storage

*\*Keep out of direct sunlight*

### SPECIFICATIONS AND COMPLIANCES

ASTM C 979

ACI 303.1 Standard Specification for Cast-in-Place Architectural Concrete

### BRIEF OVERVIEW

INCRETE COLOR-CRETE GRANULAR pigments are synthetic iron oxide pigments in granule form for easy flow and low dusting. INCRETE COLOR-CRETE GRANULAR pigments are designed to be used in concrete, producing a wide variety of color effects. Euclid Chemical manufactures a full line of COLOR-MATIC dispensing systems for this bulk-only granular pigment. COLOR-MATIC options include a dry to wet, dry, and bag-only dispensing units and are customized for ready mix, pre-cast, and supply store operations. Contact Euclid Chemical for more details.

### PRODUCT CHARACTERISTICS

#### ADVANTAGES

- Provides lasting integral color to concrete and masonry products
- Spray-dried granules for accuracy and flowability
- UV and weather safe
- Create thousands of colors with just 4 base colors
- High tint strength
- Dust free and clean
- Pure pigment, no filler
- Can't freeze and won't settle

#### COMMON USES

- Integrally colored concrete
- Base color for stamped concrete
- Cast stone and roof tiles
- Manufactured concrete products
- Ready Mix Concrete
- Cast-in-place slabs on grade
- Tilt-up panels
- Stucco, plaster
- Pre-cast concrete

#### COMMON METHODS

- Mixed in as concrete admixture

#### PHYSICAL PROPERTIES

- Sand-like dry color granules
- Working time and set time depend on job site variables and include: temperature, humidity, and concrete mix design among other things.

### TECHNICAL INFORMATION

INCRETE COLOR-CRETE GRANULAR pigments are composed of high-grade materials, including specific synthetic iron-oxide pigments chosen for intense, uniform color while exceeding ASTM C 979 specifications for integrally colored concrete.

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## DIRECTIONS FOR USE

Please consult the Best Practices and Procedures Guide for Integrally Colored Concrete

### MIX DESIGN

Design concrete mixes to use the lowest water/cement ratio applicable for local conditions and materials. Type I, II, or V Portland Cement is recommended. Use in combination with Supplementary Cementitious Materials (SCM's) such as Class F Fly Ash, Natural Pozzolan, or Ground Granulated Blast Furnace Slag when appropriate. Use the same raw material sources such as cementitious materials, aggregate and water content for the entire project. Changes will effect the color of the concrete. Do not use admixtures containing calcium chloride. Placement slump should be appropriate for the application, non-segregating and consistent from batch to batch. A jobsite test batch placement is recommended using 1/3 mixer capacity batch size using the same mix design, raw materials, slump, placement and finishing techniques that will be used on the actual job. Contact your local Euclid Chemical representative for technical assistance.

### FORMING AND PLACING CONCRETE FOR VERTICAL SURFACES

Seal joints in forms for vertical surfaces. Water leakage at joints may cause changes in water-to-cement ratio and discoloration in that area.

### COLOR MATCHING

Color Charts and Color Chips are for reference only, final color will vary based on local materials, type of finish, curing and sealing. Contact your local Euclid Chemical representative for information on color matching and mock up procedures.

### BATCHING

INCRETE COLOR-CRETE GRANULAR pigments are added in two methods depending on the type of COLORMATIC "G" being utilized. The highest tint strength possible is achieved using our Patented Dry to Wet slurry process. When using this process it is recommended to add the slurry at the beginning of the batch with the aggregate and the head-water. This will help distribute the color evenly and complete the shearing process before the cementitious materials are added. When adding dry granular pigment to the mixer, whether through a COLORMATIC "G" air blown system or by hand dosing it, it is more critical to add the dry granules to the mixer up front with the aggregate & head-water and allow as much mixing time as possible before adding the cementitious materials. The cementitious materials can act as a lubricator and prevent the color from developing 100% tint strength.

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## PRECAUTIONS/LIMITATIONS

- Concrete placed in the sun sets at a different rate than concrete in the shade. This may cause differences in color. If possible, time the pour to avoid sunlit and shaded areas.
- Do not add water to the surface during finishing operations. Added water may create a unsightly surface discoloration and mottling.
- Never add integral color to a dry mixer.
- Do not batch less than 30 percent of the mixer capacity.
- Consult INCRETE COLOR-CRETE Best Practices and Procedures for Basic Use, Curing and Maintenance information.
- Water cement ratios higher than 0.50 may result in non-uniform color.
- Variations in water/cement ratios will cause a difference in final color.
- Integrally colored concrete should not be covered with plastic/visqueen, curing blankets, etc. as surface discoloration. mottling is likely to occur.
- Do not use calcium-chloride admixtures.
- For professional use only.
- In all cases, consult the Safety Data Sheet before use.

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