

PRODUCT DATA SHEET

Color Crete 500



Integral concrete coloring admixture

Description

One of the most popular methods for coloring newly placed concrete is integral coloring admixtures. These admixtures infuse concrete with rich, long-lasting, fade-resistant color. Stamped concrete contractors often use this coloring medium to produce a backdrop for contrasting accent or antiquing colors, such as pigmented release agents and stains or dyes. This layering of color is what enables them to replicate the variegated, multi-tonal appearance of natural stone so closely.

Property Profile

A Color Crete 500 is an iron oxide pigment used in integral concrete coloring. They can come in either powder or liquid form. With Color Crete 500 , there are a wide variety of concrete color options available. Many manufacturers offer over 20 standard concrete color additives and custom color matching services. Also, Color Crete 500 have a low likelihood of fading. Since the introduction of the repulp able bag, which dissolves when tossed into the concrete mix, using powdered integral coloring has never been easier. Ready Mix suppliers simply toss in the entire bag of color, cutting down on work and mess.

Advantages

With Color Crete 500 concrete, the entire batch of concrete is colored all the way through, similar to adding food coloring to cake icing. Integral colors Color Crete 500 are available in powdered, granular and liquid forms. All types are generally a blend of synthetic or natural iron-oxide pigments that are formulated to disperse evenly when mixed into fresh concrete, either at the ready-mix plant or at the job site. The palette for Color Crete 500 consists primarily of soft earth tones that integrate well with most landscapes and architectural elements. (See this color chart for Mix-Ready pigments from GAC Colors.) The chief advantage of Color Crete 500 is that the color extends throughout the entire concrete slab, so even if surface abrasion occurs, the color will not wear away. The pigments in Color Crete 500 coloring admixtures also are chemically stable and won't fade over time from exposure to the weather or ultraviolet light. Another big advantage is convenience and labor savings. Because the Color Crete 500 is mixed into the concrete, you can simply place and finish the concrete as usual. There's no need to dust the color onto the surface and float it in during finishing, as is the case with Color Crete 200 .

Working Direction

Color Crete 500 can be added to just about any type of new concrete. Popular applications include exterior flatwork, floors, walls and countertops. Color Crete 500 is ideal for achieving uniform tones with no variations. It also works well as a contrasting base shade for creating layers of color. For example, stamped concrete contractors often start out with Color Crete 500 concrete and then enhance it with color hardeners, stains and other surface-applied treatments. Indoors, Color Crete 500 is a good alternative to Color Crete 200 if mess and cleanup are concerns.

Color Chemical Composition

Fe	53.6%
Fe2O3	76.6%
SiO2	9.0%
Al2O3	3.0%
MgO	1.0%
CaO	0.8%
Mn	0.4%
P	0.1%
Pb	20 ppm
As	6 ppm

Application Guidelines

- Verify that no calcium chloride or other incompatible admixture will be used in the mix.
- Pour a sample to make sure the color meets the designer and owner's specifications (different finishing textures can change the look of the concrete)
- Order concrete with substantial lead times as not all colors are always kept in stock
- Avoid delays in placement or excessive mixing at the job site
- Check that the type and brand of cement, the aggregate source, and the coloring agent will not change during the job
- Keep the water content and slump consistent from load to load
- Verify the color matching curing or clear cure is available for the selected color-conditioning admixture
- Ponding, fogging, and wet coverings such as burlap should not be used on colored concrete
- Protect colored concrete from damage from construction traffic

Curing & Sealing

Never use plastic sheeting or water spray to cure colored concrete, as it will mottle and streak the surface. Use liquid, membrane-forming compounds. Do not over apply. To avoid discoloration do not store objects on colored concrete for at least seven days after the pour. Cured and sealed surfaces may become slippery when wet if the concrete surface is not adequately finished for slip resistance. Incorporate a slip resistant additive into the sealer for additional slip resistance. Interior floors may be maintained with a slip resistant wax.

Application Rate

Greatly variable depending on required color tone and concrete mix design.

Our recommendations concerning the technical application of the product, whether through oral or written communication or through demonstration, are given to the best of our current knowledge; however, any such instruction shall be without commitment, including where any protective rights of third parties are involved. They do not free you of the obligation to check the products supplied by us for their suitability for the procedures and applications envisaged. The (intended) use and application of the products are beyond our control. They are therefore your personal responsibility. In the event that GAC proves liable, such liability shall be limited in all cases of damage to a sum not exceeding the actual value of the goods supplied by us and used by you. It goes without saying that we guarantee the good quality of our products, in accordance with the standards set out in our General Terms of Sale and Delivery.

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Packing & Storage

Packaging	15kg bags
Storage	12 months of shelf life when stored in cool and dry place away from direct sunlight and in a rack or pallet lifted from the ground or any other source of moisture.

Safety, Ecology and Disposal

Avoid contact with skin and eyes. Use protective gloves, clothing, and goggles. For more information, please refer to Product Safety Information Form. (MSDS)

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