

LIQUID-GEL PIGMENT FOR CONCRETE AND MORTAR

Technology Solutions for the Construction Industry

GENERAL DESCRIPTION

CONSTRUCOLOR® B05 is a water based Thixotropic Liquid-Gel Pigment free of solvents and environmentally friendly, formulated especially for integral and uniform batch-to-batch coloring of concrete and mortar mix. This product has proven to have no adverse effects on the structural characteristics of the concrete or mortar.

CONSTRUCOLOR® B05 is produced under rigorous plant standards and raw materials used are inorganic pigments that comply with ASTM-979 (Standard Specification for Pigments for Integrally Colored Concrete).

CONSTRUCOLOR® B05 pigment is highly resistant to sunlight UV radiation, alkali and weather conditions, keeping the integrity of color for a longer period of time.

In the B05 pigment color chart are available 14 standard colors with four different tones each. Custom colors are available upon request.

USES

CONSTRUCOLOR® B05 Liquid-Gel Pigment can be used for cast-in place concrete, pre-cast and tilt-up concrete panels, retaining walls, concrete blocks, bricks and pavers or any other use where a cement mixture requires integral coloring. CONSTRUCOLOR® B05 also can be used to color mortar grout joints, for the installation of floor or wall ceramic tiles, bricks and masonry.

The B05 Liquid-Gel Pigment are compatible with CONSTRUCOLOR® S02-AA052 water-based Acrylic Curing and Sealing Compound, CONSTRUCOLOR® Overlays Systems and CONSTRUCOLOR® Pervious System.

PREPARATION OF CONCRETE OR MORTAR

CONSTRUCOLOR® B05 is easy to use and can be added at any time to the water or directly into the concrete or mortar mixture during the mixing process. The dosage of B05 pigment is calculated in relation to the percentage of cement and fly ash in the concrete or mortar mixture, making it possible to be added accordingly to weight, either manually or through automatic dispensing equipment.

For uniform batch-to-batch color, the concrete mix design should be consistent. Timing and placement of the concrete, forming and finishing techniques, release agents, curing methods, color of cement and aggregates, and water content may contribute to slight variations in the finished color. The addition of lime will tend to lighten the color. In general, it is recommended to add between 1% and 10% of B05 pigment in proportion to the weight of cement and fly ash in the concrete or mortar.

Once the first batch is made, it's recommended adding part of the water until the B05 has been mixed completely. After this is done, the rest of the water can be incorporated to assuring ideal slump on the batch. The following batches must consider the same proportions.

USE WITH ADDITIVES

CONSTRUCOLOR® B05 Liquid-Gel Pigment has not presented any incompatibilities with additives commonly used in the production of concrete and mortar mixes, with the exception of calcium chloride. We recommend a test before using it with an additive for first time.

When using CONSTRUCOLOR® B05 Liquid-Gel Pigment in concrete mixtures that contain an additive, as a precaution it is not recommended to add them at the same time. It is preferable to add the pigment first as you obtain the desired color in the mixture and then proceed to add the additive. Adjust the desired slump of concrete or mortar after including all additives and pigment.

CONCRETE OR MORTAR PLACEMENT

The slump in the mix must be consistent from batch to batch. Additional water to facilitate the placement must be avoided. Do not add cement powder to the already placed concrete mix, or a practice commonly called "burning" the concrete, in order to polish the surface of the concrete.

CURING

The use of water steam to accelerate the curing process, burlaps, plastic sheeting or addition of water to cure the concrete is not recommended as it may produce an uneven color. Depending of the timing and placement of the concrete, efflorescence may appear on the concrete surface as a white powder; this is caused by the water evaporation and makes it look faded. The residue must be removed as soon as it is practicable, before it turns into calcium carbonate, which may be permanent if not removed rapidly.

We recommend use CONSTRUCOLOR® S02-AA052 water-based Acrylic Curing and Sealing Compound to curing the area. The curing compound must be always transparent.

RECOMMENDATIONS

- Use a water reducing agent in the concrete mix.
- Request the concrete mix with the minimal slump required to work the concrete properly.
- Mix the pigment container prior to added to the concrete.

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- If the pigment is being added directly into the mix truck, in case that the mixer isn't full to its maximum capacity it is necessary to request the operator to bring the concrete to the highest part in the mixer and pour the

pigment directly into the concrete. Repeat the operation more than once to ensure that all the color is at the level of the concrete and then proceed to mix the concrete for about 5 minutes.

- Do not "BURN" the concrete when troweling the surface.

DOSIFICATION TABLE

Based on 3,000 PSI or 5 Sack Mix

Color	4.7 lb pails per 1 CY	23.5 lb pails per 5 CY
B	1	1
D	2	2
F	3	3
H	4	4

PACKAGING

CONSTRUCOLOR® B05 Liquid-gel Pigment is pre-packaged in 23.5 lb and 4.7 lb pails.

SHELF LIFE

CONSTRUCOLOR® B05 shelf life is one years from the date of manufacture if stored properly in its original seal container in a temperature range between 32° degrees (0°C) and 104° degrees (40°C).

CAUTION

This product is intended for professional use only. Before using or handling this product, read the Safety Data Sheet. It contains basic precautions and recommendations in reference to health and safety, which must be taken into consideration when handling this product.

WARRANTY

CONSTRUCOLOR® B05 is warranted to be of uniform quality within manufacturing tolerances. All information, recommendations, and suggestions concerning CONSTRUCOLOR® products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, and suitability for his or her own use of the products described herein. Since the actual use by others is beyond CONSTRUCOLOR® control, no guarantee, expressed or implied, is made by Construcolor® as to the effects of such use, the results to be obtained, or the safety and suitability of the product.