



HBS INTEGRAL COLOR

TECHNICAL DATA

DESCRIPTION:

HBS Integral Colors are made with high quality, inorganic pigments. They are lightfast, chemical and weather resistant and conform with ASTM C-979. They contain no other additives that might interfere with the mix design selected by the local contractor and his ready mix supplier. HBS Integral Colors are available in a variety of standard colors or can be custom blended to your needs.

BASIC USES:

HBS Integral Concrete Colors enable the designer/architect to add artistic design to all the other traditional properties of concrete. They are used to add warmth and beauty to concrete roof tiles, blocks and pavers as well as mortar joints, stucco, stamped concrete, tilt-wall buildings, precast panels, terrazzo and concrete slabs like driveways, patios, sidewalks,... In ready mix applications they work well with smooth or rough finishes as well as stamped or exposed aggregate surfaces.

CONCRETE MIX DESIGN:

The concrete should contain 5 sacks or more of cement per cubic yard, and have a slump of 4 inches or less. All fine and coarse aggregates must be non-reactive and the concrete must not contain any admixture or additive that contains calcium chloride. Due to the variability of flyash, aggregate and cement,

the color of the final concrete may be slightly different than shown on our color card.

APPLICATION:

HBS Integral Concrete Color should be added directly into the mixer along with the aggregate, cement and water. After all color has been added, the mixer should operate at mixing speed for 10 minutes. The mix design should remain constant from batch to batch. Place colored concrete in the forms as near to the final location as possible. Movement should be minimal to avoid segregation. Once a portion of the batch has been placed, no water should be added to the remaining batch.

FINISHING:

Finishing should not begin until the bleed water has left the surface to avoid scaling, dusting, crazing, efflorescence and uneven color. Initial floating should be discontinued as soon as the surface becomes wet. Floating may be resumed after surface water disappears. Over troweling may cause uneven color. Do not add water to the finishing process. Do not use plastic sheeting or membrane paper. No dusting with cement or sprinkling with water should be done when finishing colored concrete. Curing may be done with HBS Solvent Wax or a non-silicate curing compound.



SEALING:

It is highly recommended that all decorative concrete surfaces be sealed with one of the quality HBS Sealers (Penetrating, Gloss, Color Enhancer, or Solvent Based Wax). Both the Penetrating and the Gloss sealers are totally VOC compliant, water based systems and are available in either clear or tinted forms.

PACKAGING:

HBS Integral Concrete Color is normally supplied in 50 lb. paper bags but is also available in 5 gallon plastic pails or custom packages to meet your batch design.

COVERAGE:

The amount of color required for any given job is based on a specific weight ratio of color to cement as represented on one of our color cards.

WARRANTIES:

CSI warrants that HBS Integral Concrete Color meets the manufacturers specifications in affect on the day of shipment but expressly disclaims any warranties, expressed or implied, as to the suitability of the product for any specific purpose. It is the purchasers responsibility to test and determine the suitability for the intended use.

CERTIFICATIONS:

HBS Integral Concrete Colors conform with ASTM C-979 for color stability, UV and alkali resistance.

WARNING!

**IRRITATING TO EYES AND SKIN.
DO NOT BREATH DUST.**

Before using or handling, read the
Material Safety Data Sheet.

NOTE:

The colors on our color card approximate, as closely as possible, the appearance obtained with HBS Integral Concrete Color. Variables, including the color of other ingredients, job conditions and finishing techniques, affect the final color. If color accuracy is critical, a pre-construction sample utilizing actual job site materials and construction methods is required.



SUGGESTED SPECIFICATION - INTEGRAL CONCRETE COLOR

INTEGRAL COLOR SELECTION:

All concrete designated as colored in the plans and specifications shall be integrally colored with HBS Integral Color # HBS-_____, manufactured by ChemSystems, Inc. of Houston, TX (800-545-9827) or equal. The color must consist of only of pure pigments that conform with ASTM C-979-82 and must not contain any admixtures, or other additives.

INTEGRAL COLOR APPLICATION:

HBS Integral Concrete Color shall be added directly into the mixer along with the aggregate, cement and water. After all color has been added, the mixer must operate at mixing speed for 10 minutes. The mix design should remain constant from batch to batch. Place colored concrete in the forms as near to the final location as possible. Movement should be minimal to avoid segregation. Once a portion of the batch has been placed, no water shall be added to the remaining batch.

STAMP RELEASE AGENT: (Delete if surface is not stamped)

All concrete designated as stamped in the plans and specifications shall use HBS Release Agent, manufactured by ChemSystems, Inc. of Houston, TX (800-545-9827) or an equal, powdered stamp release agent. Stamp Release shall be _____ (color), and must be thoroughly removed by power washing before application of sealer.

SURFACE SEALER:

All colored concrete shall be sealed with either HBS Penetrating Sealer, HBS Gloss Sealer or HBS Color Enhancer. The sealer must be applied in accordance with the manufacturer's specifications at a rate of 300 square feet per gallon. The surface must be thoroughly cleaned before application and be free of all dirt, dust, efflorescence and particularly petroleum products and release agents. Any heavy spots or puddles must be rolled out within 10-15 minutes of application.

CONCRETE MIX DESIGN:

The concrete should utilize the proper mix design to accomplish _____ PSI. The concrete shall contain _____ sacks of Portland cement per cubic yard of concrete, and have a slump of 4 inches or less. All fine and coarse aggregates must be non-reactive. The concrete must not contain any admixture or additive that contains calcium chloride.

CONCRETE INSTALLATION:

Concrete shall be placed on a properly prepared subgrade and sloped sufficiently to insure proper drainage. Before the appearance of excess moisture or bleed water, the surface should be screeded to the finished grade specified by the architect, and wood-floated to the required flatness and levelness. Floating shall be done with wood floats.

FINISHING:

Finishing should not begin until the bleed water has left the surface. Initial floating should be discontinued as soon as the surface becomes wet. Floating may be resumed after surface water disappears. Do not over trowel. Do not add water to the finishing process. Do not use plastic sheeting or membrane paper. Dusting with cement or sprinkling with water should not be done. All surfaces shall be finished uniformly.