



GREEN UMBRELLA™ COLORPAC

INTEGRAL COLOR FOR CONCRETE

GU Integral ColorPac Colorants are iron oxide pigments that can be used for concrete that is consistent in color from top to bottom. ColorPac Integral Colorants are **Versatile** and may be used in ready mix, pre-cast, tilt-up, ornamental concrete, shot-crete, mortar, concrete masonry units, pavers, roof tiles, and retaining wall units. ColorPac may also be used to color stucco, plaster, cast stone, and many other cement-based construction materials. When coupled with GreenIce Cure they present an **Economical** concrete surface that as the finished floor creates a **Sustainable** project.



Materials: Green Umbrella Integral ColorPac colors do not contain fillers or extenders. All pigments are permanent, light-fast, inert and stable to atmospheric conditions. GU Integral ColorPac colors comply with ASTM C979, Pigments for Integrally Colored Concrete. Integral colors are *not* designed for dust-on application.

Packaging: GU Integral Color ColorPac are packaged in pre-measured per cubic yard disintegrating bags. ColorPac™ may be tossed into mixer without opening or pouring. The mixing action disintegrates the bag allowing the pigment to disperse throughout the mix. Select colors are available in standard 50 lb. paper bags 2000 lb. super sacs, and bulk tanker loads. Quality is assured by a batch label system that tracks the product through production to the warehouse and to your job site. Standard packaging is based on a 5 sack mix (3000psi) per cubic yard.

Mix Design: Make sure to use the same mix design and a consistent water to cement ratio throughout the job with a consistent slump between 3" to 5". Color variation may occur if batch proportion and slump are not maintained from load to load. Keep all raw materials (sand, cement, and aggregates especially) as consistent as possible throughout the entire project. Changes in raw materials (size, color, moisture content) affect the final color. Remember water has a vast effect on final color. Adding too much water will lighten the color of the project giving it a pale or washed out look. When better flowability is required, use a plasticizer or water reducing admixture. Calcium chloride or any chloride based accelerator should not be used. Chloride based additives will cause discoloration in the finished project.

Batch Plant - When mixing at batch plant, truck mixers should be thoroughly cleaned prior to use. For best results add two-thirds of the water and one-half of the aggregates to the drum. Add ColorPac to the drum.

Mix at full charging speed for three minutes or until bags break apart and pigment is dispersed evenly. Add balance of ingredients and mix at full charging speed for 10- 12 minutes (100-120 revolutions).



Job Site - GU Integral ColorPac Integral Color can also be added at the job site. Add bags to drum and mix for 12-15 minutes (120-150 revolutions). Order concrete at a workable slump (3-5") and always keep water addition to a minimum. Make every effort to maintain consistency with multiple loads. Water addition can lead to inconsistent color.



Cut your
LABOR



Cut your
DOWNTIME



Cut your
ENVIRONMENTAL
IMPACT



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Green Umbrella ColorPac Integral Color for concrete recommends following similar procedures for colored and uncolored concrete regarding base preparation, use of vapor barriers, form placement, reinforcement and joints. Integrally colored concrete should be installed the same way as high quality uncolored concrete. Listed are additional guidelines that should be observed for colored concrete. For more detailed information, please review our color guide.

- GU recommends GreenIce Cure integral curing product to control the moisture in the concrete. Since irregular moisture content and curing are the most serious issue regarding consistent color, this product controls the moisture and will provide consistent color.
- Avoid adding extra water at the job site. Do not wet finishing tools or add water to the surface of the colored concrete.
- The surface should not become wet as the moisture is controlled by the admix. Start finishing the concrete when hard enough to walk on without sinking in more than .". If power troweling you should use Green Ice Curing system with power trowels.
- Do not use wet coverings, plastic sheeting, water proof paper, or liquid membrane curing compounds.
- Even curing + even drying = even color.
- Pigment loading should never exceed 10% of the weight of the cement content.
- Consistency = Reliability.
- Do not sprinkle pigment onto the surface of the concrete.
- Complete the job by sealing your project with Green Umbrella Ice Cap or RTU Microfilm.

Efflorescence is a naturally occurring process. It is a white powdery substance that may occur on the surface of the concrete. This is a result of water evaporation and is more noticeable on colored concrete. Proper curing and protection from water penetration will help reduce the effects of efflorescence. If efflorescence occurs, care should be taken to clean the surface. Use approved products for cleaning colored concrete and be sure to seal with a GU recommended sealer. GU Green Ice System is designed to be applied to freshly placed concrete during the finishing process. This product seals and protects, assures proper curing and will help to prevent efflorescence. Please refer to GU Green Ice System tech data pages for proper application. Always follow manufacturer's recommendations carefully.


FIRE

5# cubic yard


STRAW

5# cubic yard


LIGHT GOLDENROD

5# cubic yard


PRUNE

10# cubic yard


TEA GREEN

5# cubic yard


NUTCRACKER

10# cubic yard


CHINO

5# cubic yard


SANDSHARK

10# cubic yard


WARM SPICE

10# cubic yard


MEDIUM GOLDENROD

7.5# cubic yard


VINTAGE GREEN

10# cubic yard


FLAGSTAFF

5# cubic yard


RED ROCKS

10# cubic yard


SEPTEMBER MORN

10# cubic yard


GRAY MIST

10# cubic yard


DARK GOLDENROD

15# cubic yard


SALMON

10# cubic yard


VINTAGE GOLD

15# cubic yard


RED CLAY

20# cubic yard


BORDEAUX

20# cubic yard


CABERNET

25# cubic yard


RIVER STONE

25# cubic yard


REDWOOD

25# cubic yard


SEA KELP

20# cubic yard


SLATE GRAY

20# cubic yard


TERRA COTTA

20# cubic yard


BLACK DIAMOND

30# cubic yard


MUSCADE

20# cubic yard


SYRAH

20# cubic yard


CUMIN

20# cubic yard


WARM HONEY

25# cubic yard


CHESTNUT BROWN

25# cubic yard


BUCKSKIN

15# cubic yard


ONYX

35# cubic yard


HOT CHOCOLATE

20# cubic yard