



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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COLORPAC

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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.



TROUT
5# cubic yard



PIKE
5# cubic yard



GROUPE
5# cubic yard



REDFISH
10# cubic yard



BASS
5# cubic yard



SPARROW
10# cubic yard



WREN
5# cubic yard



CATBIRD
10# cubic yard



THRASHER
10# cubic yard



HAWK
7.5# cubic yard



TREE FROG
10# cubic yard



BROWN BEAR
5# cubic yard



RED PANDA
10# cubic yard



CAMEL
10# cubic yard



GRAY FOX
10# cubic yard



COTTON
15# cubic yard



CAREX
10# cubic yard



WHEAT
15# cubic yard



APPLE
20# cubic yard



CRANBERRY
20# cubic yard



PURPLE SEA SNAIL
25# cubic yard



OTTER
25# cubic yard



LADY BUG
25# cubic yard



SEA KELP
20# cubic yard



SHARK GRAY
20# cubic yard



CAYENNE
20# cubic yard



BLACK PEPPER
30# cubic yard



NUTMEG
20# cubic yard



MERLOT
20# cubic yard



CUMIN
20# cubic yard



PECAN
25# cubic yard



WALNUT
25# cubic yard



HICKORY
15# cubic yard



ONYX
35# cubic yard



BIRCH
20# cubic yard