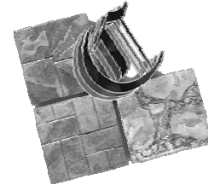


PaveCrete 500

Integral Color for Concrete



DESCRIPTION • *PaveCrete 500* is a ready-to-use concrete additive that gives concrete integral, uniform permanent color.

USES • *PaveCrete 500* is used as an admixture in concrete and other cementitious mixes. Typical applications include side walks, streets, pool decks, driveways and walls. *PaveCrete 500* is also suitable for stamped concrete applications where integral color is required in lieu of dry shake color hardener.

ADVANTAGES

- ✓ Durable, UV-resistant integral color.
- ✓ Economical method of coloring concrete.
- ✓ Reduced color bleeding
- ✓ Exterior and Interior application.
- ✓ Ready and easy to use.
- ✓ Available in 40 standard colors.

LIMITATIONS • Avoid using any admixtures that contain Calcium Chloride. Calcium Chloride may cause salt deposits to form on the concrete surface, leading to discoloration. If the color is batched from large bags, always use a whole number of bags per truck. Do not try to batch partial bags. Do not change cement brands in the middle of a job; cements from different sources have different shades of gray, consequently changes in cement color will cause changes in the concrete color. Do not add water to the surface during finishing operations; adding water may create a blotchy surface. Do not allow the slump to vary from load to load; control the mix for good uniformity. The quantity of colored concrete mixed should not be less than one-third of the capacity of the mixing drum. Do not pump concrete without first priming the pump with an identically colored slurry mix.

DOSAGE • *PaveCrete 500* should be added at the rate of one bag per cubic meter of concrete.

SURFACE PREPARATION • The Sub-grade should be well drained and have all adequate and uniform load-bearing characteristics. It must be moist, completely consolidated, and free of frost at the time of concreting. If necessary, the sub-grade may be dampened with water in advance of concreting, but concrete should not be placed over free standing water or muddy, frozen, or soft spots. In sand corrosive soil substrate, 1 mm polyethylene sheet is recommended under the concrete slab. Surrounding areas, landscaping, and adjacent surfaces should be protected. The work area should be roped off, nearby vehicles removed, and appropriate sections closed to traffic.

MIX DESIGN, BATCHING, AND MIXING • The base concrete should contain a minimum of 300 kg of cement per cubic meter. All aggregates must be clean and free of particles that may deteriorate; the water cement ratio should be less than 0.55; and the slump should not exceed 10 cm - adding extra water to increase slump may cause excessive bleeding and non-uniformity in color. Avoid the addition of calcium chloride or any admixtures containing calcium chloride. Do not use water-reducing admixtures (super plasticizer). Additionally, all aggregates in the concrete mix must be non-reactive and free of deleterious materials. Color of cement (white or gray) used in the concrete mix depends on the finished color required.

Don't add *PaveCrete 500* first, it may stick to the mixer baffles and not get uniformly distributed. The best sequence is to first batch some of the aggregates, both coarse and fine, and water. With mixer running, add the color and mix for at least a minute before adding the balance of materials. Turn the drum at mixing speed for an additional 3 to 5 minutes before the truck leaves the yard. If dosing on-site, allow at least 10 minutes of mixing time

Watch slump particularly closely during batching. Slump variations often indicate that water content has changed, perhaps because of clean out water left in the truck or changes in the aggregate surface moisture content. Changes in water content cause variations in color.

FLAT WORK INSTALLATION • The concrete should be placed and consolidated so that it completely fills all space inside the forms and provides a suitable surface for finishing.

The pour for each panel must be continuous to prevent cold joints. To prevent uneven distribution of the aggregates near the bottom or top surfaces, the concrete must be vibrated evenly. Stubby vibrators, approximately two inches in diameter and four inches in length should be used only for structural concrete.

The vibrator should be inserted perpendicular to the top of the panel without touching the reinforcing steel and must not be used to move the concrete. Vibration should continue only to the extent needed to achieve proper consolidation. Slab on grade requires light vibration and tamping by floaters.

Only uniformly slip-resistant textures, such as broom, swirl, sponge flat, exposed aggregate or stamped concrete should be considered for exterior concrete flat work.

Don't start finishing colored concrete until the bleed water has evaporated. Finishing too early causes discoloration and a weak non-durable surface. Use a mechanical float or trowel if possible. The one-way



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motion of the blades creates a more uniform colored surface than the back-and-forth motion used in hand finishing. Move edges in one direction only to produce a more uniform color.

FINAL FINISH • Surfaces of concrete integrally colored with **PaveCrete 500** can be finished as stamped/textured, broomed, trowelled, rock-salt finished, sand blasted, exposed aggregate or any other number of other appealing textures.

CURING • Curing should be carried out immediately after completion of finishing either by conventional methods or by the application of **A-Z 100 Curing Agent**. Avoid the use of any materials that contain sodium-silicate or the use of plastic sheeting or misting techniques. Never use water for curing colored concrete surfaces.

SEALING • For enhanced protection of the concrete surface, it is recommended that the surface be sealed with **A-Z Super Sealer** or **A-Z Mega Sealer**. Refer to the relevant CCC technical data sheet for application instructions.

CLEANING • Clean all tools and equipment promptly with clean water.

STORAGE • Keep material covered to prevent exposure to moisture. Store in a dry area.

SAFETY PRECAUTIONS • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Irritating to eyes and skin. Use in adequate ventilation and do not breath dust. Use neoprene gloves and a dust mask when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

PACKAGING • 35 kg paper bags.

Creative Concrete Concepts

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