

ColorBlend® ColorPatch Thin Topping



Technical Data Bulletin

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Inquiries: (954) 657-8812
Fax (954) 657-8631
Pompano Beach, Florida.
www. Builderscolor.com



ColorBlend® ColorPatch

Two part high performance surface applied Portland cement coating to add color or rehabilitation of new and old municipal damaged concrete or coloring of plain concrete surfaces.

Description:

Commercial grade two component system used for any purpose to recolor and improve new or damaged concrete surfaces. Tougher and more economical to use than traditional removal and replacement methods. Also more durable than stains. This product will provide a commercial wear surface with less water absorption, surface hardness and non fading permanent colors.

Product Composition:

A dry blend of Portland cements, proprietary additives, iron oxides, fine silica sands and a supplied liquid acrylic polymer.

Product Limitations:

Product is a hard coating system that **will not** bridge gaps, repair cracks and spills prior to installation. As with all color products, surface must be sealed after 24 hours of cure. This product is self-curing and although pumping of product is possible, we do not recommend it.

Applicable Standards:

Coloring conforms to ASTM C-979. Systems uses non-fading iron oxides.

Packaging

Packaged in 40 Pound plastic bags or pails and pre-proportioned liquid acrylic polymer additive. Orders of this product are limited to a minimum lot of 15 units of one color.

Shelf Life:

One year in un-opened package and stored in a cool, dry storage away from sunlight.

Concrete Materials:

Concrete receiving ColorPatch should be of a minimum of 14 days old, preferably water cured. Remove all dirt, chemical curing agents and any sealers or coatings prior to installation in old surfaces.

Surface Preparation:

New and old concrete must be cleaned thoroughly with a suitable commercial detergent to remove dirt, grease, chewing gum or any coatings. Use a mild acid solution to open pores and lift any surface laitance or dusting. Rinse with a pressure cleaner under 1500 psi. This removes any acid residue that is then neutralized with a solution of one tablespoon baking soda for each one gallon of rinse water.

Prepare and mix product:

Normally this is a two man operation; one mixes while one installs.

The two components are now ready to be mixed together. In an empty pail, add the pre-measured acrylic liquid and add all of the powder slowly while mixing with a electric power drill mixer until it resembles a batter-like consistency. On hot windy days, you may cool the Polymer liquid in a bath of crushed ice prior to mixing each unit to retard the setting time. Only mix enough material needed to use in 20 minutes. A chemical retarder is available.

Installation:

Installation can commence immediately after surfaces are cleaned, otherwise make sure surfaces are moist prior to receiving the ColorPatch to ease spreading.

All placement must be monolithic in a continued forward motion.

Place a small puddle and start to spread on surface with a spreading push broom, a squeegee notched to minimum of 3/16 to a maximum of 1/4 inch. Depending on the desired coverage, different tools can be used to obtain other suitable finishes.

Start on the lowest pitched section and work towards the leveled sections finishing the surfaces as you go. Do not wait to apply finish because the surface will start to set and pull as you try to re-spread. This product will hold foot traffic after 8 hours and full service after sealed. (24 hours).

Vertical: (smooth finish product)

Spread any vertical areas with a heavy texture brush and finish as you apply from the bottom up. Use a continued motion to avoid any cold overlaps.

Note: Sealer is required to keep it clean. *Protect work from dirt prior to sealing as dirt will attach to the polymer and will be difficult to remove.*

Time to seal depends on sealer composition and evaporation rate. Water based is recommended and can be used as soon as 8 hours after application. Solvent based sealers require a full 24 hour cure time.

Special Finishes:

Special patterns can be obtained by using different brushes, overlay trowels, or any other method including spray deck look by texturing a 2nd top coat. A test panel is suggested when preparing to install any job to device a finishing technique that will produce the desired final results.

Expansion Joints:

Existing expansion joints must be coated prior to any joint sealant application.

Color Consistency:

The key to even color, is to add equal amounts of pre-measured wetting liquid going into each unit for all of the work. We do not recommend mixing partial units, adding water or any chemical into the mixture to alter it in any way. Most importantly, do not to use water or wet tools on the surface to aid in the finishing. Adjust your timing to allow finishing because surface water will show as a discolored area after product dries requiring re-application.

Standard colors available:

Available in standard gray cement, all municipal street colors, including ADA. and custom colors upon demand. Please call us to see all our color possibilities on this product.

Special color matching can be requested for a fee.

Sealing and Protection:

Following is a list of Builders sealers available that can be used to seal the work:

Products:

Low Sheen, Water based Products:

- ◇ Builders WB 309 Cure/Seal
- ◇ DuraSeal WB

these produce an even sheen without any color enhancement.

High gloss, Solvent Based systems:

- ◇ Builders Super 25 Cure & Seal
- ◇ Crystal Seal

These will produce a gloss with some surface color enhancement. Visit our Website for technical data on these seal products.

Color Inconsistencies and damage:

Weather related problems, lack of timely finish and related mistakes may result in less than uniform color consistent surfaces. These can be easily repaired. If the surface has been damaged by weather or finish is too coarse, you may level to an acceptable finish by applying a water mist to re-establish surface plasticity and by applying a second coat. Wait until first coat has hardened before applying any second coat.

Protection During Construction:

Keep all construction traffic off the pavement for at least 24 hours and after sealing.

Never cover color concrete with blankets, plywood or other materials before applying a chemical sealing compound and fully dry. Install a white uncoated Craft paper at least 6 mills and taped over a 6" lap over the finished surfaces to keep construction dirt off the decorative flatwork. Under severe construction traffic, it may be possible to cover the area with a non-staining rigid material over the Craft paper but not before the sealer has fully dried.

Note on Solar Reflectance Index SRI:

SRI values can only be obtained by submitting a representative sample of the finished system for analysis. Builders construction Products can provide this service at a cost to the customer on per individual case bases. Please contact our office for details.

Light effects on concrete surfaces:

What appears to be fading or stains can be attributed to light reflecting from the finish profile, organic growth, salt deposits and dirt in unsealed concrete. Efflorescence can be a major contributor that can be overcome by proper sealing surfaces, and with the proper maintenance during the surface use cycles.

Maintenance:

At time intervals, wash with a mild detergent to remove grease and dirt. Re-seal as needed.

Warranty: When product is used according to directions and when properly used, warranty is limited to one year after product manufacture. Warranty does not cover color or surface inconsistencies produced by installations or situations beyond our control. Successful use of this product is dependent on craftsmanship and not the product alone. Only a refund of the purchase price if deemed defective at manufacture. This product is intended for industrial professional use by competent tradesmen. Builders Construction Products shall not be liable to the purchaser or any third party for costs of labor or direct or indirect and incidental or consequential damages related to the use or suitability of this product. No other warranties are implied. Transport and disposal of unused products and any packaging is the responsibility of the purchaser and or final user.

