

COLOR POWDER RELEASE

TECHNICAL DATA

DESCRIPTION:

STAMPCRETE COLORED RELEASE AGENT is a ready to use dry shake bond breaker and moisture retainer, used when imprinting fresh concrete with stamping tools.

STAMPCRETE COLORED RELEASE AGENT is a blend of colored pigments and other proprietary ingredients that produce a STREAK-FREE and STICK-FREE release of the stamping tools from the concrete, and retains surface moisture, preventing rapid moisture.

STAMPCRETE COLORED RELEASE AGENT is used to create unique coloring and antiquing effects in the cured concrete surface.

STAMPCRETE COLORED RELEASE AGENT is not the primary coloring agent; it enhances or antiques the color produced by the Dry-Shake hardener or integral color of the concrete.

STAMPCRETE COLORED RELEASE AGENT is chemically neutral and does not require any part of the concrete to produce its release. Color release is also inorganic and does not retard the hydration of the concrete.

LIMITATIONS:

The color of concrete is a function of the base ingredients: Fine aggregate, coarse aggregate, water and cement. Clean washed aggregates have some effect on concrete color, but less effect than the water and cement. However, the greatest contributing factor to concrete color is the water/cement ratio. Contributing factors to changes in water/cement ratio are:

1. Absorption by formwork or sub-grade.
2. High concentrations of Calcium Hydroxide found in sand, water and cement in varying quantities (pozzolans consume excess calcium)

migrate to the surface in the form of efflorescence.

3. Working the concrete surface when concrete is still bleeding.
4. Rapid moisture loss at the concrete surface caused by wind, elevated temperatures or sunlight.
5. Poor workmanship in finishing, coloring, texturing, mat removal, curing, or scaling or even slight variations in the water/cement ratio can produce drastic color variations.

Colors produced by Dry-Shake hardeners alter the water/cement ratio and therefore require great care to produce color consistency. The color produced by the Release agent may vary from that of the underlying concrete color. Use darker colored release agent than the color of the dry-shake hardener or integral colors. (It is better to contrast than to attempt to match) The amount of antiquing required will vary significantly depending upon the anticipated final appearance. Antiquing release agents are not to be used as a prime coloring agent, only as a secondary antiquing. The release agent should not be troweled into the concrete surface, as this will cause permanent staining.

MATERIALS:

STAMPCRETE COLORED RELEASE AGENT is a streak-free blend of color pigments and other proprietary components for exceptional release and bond breaking characteristics.

DIRECTIONS FOR USE

CONCRETE MIX DESIGN:

The concrete must be a minimum of 3500 psi Compressive strength in 28 days with no more than 4-5% air entrainment. Neither the fine nor the coarse aggregate can have "gaps" in the gradation. The more evenly divided, by weight, both the

fine and the coarse aggregates are the greater the potential for success in a stamping application. Water reducers lower the water/cement ratio and if used in the concrete, they must also be used in the test pour. Fly ash should be considered in areas where high concentrations of calcium hydroxide can be found in any of the water, sand or cement. All aggregates must be non-reactive and non-water absorbing. The water/cement ratio should be .50. The concrete mix must not contain any calcium chloride.

CONCRETE INSTALLATION:

Surrounding areas should be protected. The work area should be roped off and nearby vehicles removed. When placing concrete, spread concrete so that it completely fills all space inside the forms and consolidate, strike-off the concrete, straight edge in opposite direction of strike-off, wait for bleed water to rise and remove when bleeding has subsided. Then float with a float attachment (any pitch on the float will cause blistering and delamination of the dry-shake) to the specified finished grade, using wood floats or rubber floats for small areas, keeping the surface open.

HARDENED APPLICATION:

Distribute the required amounts of STAMPCRETE Heavy Duty dry-shake hardeners in color as needed around the perimeter of the plastic concrete. Protect adjacent areas with plastic sheeting. Apply STAMPCRETE Color Hardener when all bleed water has been removed and the floating process has been completed. Normally apply STAMPCRETE COLOR HARDENER evenly in two separate shakes, using two thirds of the material for the first shake. Use wood or magnesium floats. After applying the final shake, hand float the surface to a uniform float finish. The surface is now

ready to imprint or texture as desired. For the Integral Coloring Method, the above steps do not have to be followed. This method saves time, labor and also adds to consistency.

Immediately before imprinting, the STAMPCRETE COLORED RELEASE AGENT should be broadcast onto the freshly placed colored concrete at the approximate coverage rate of 3-4 pounds per 100 sq. ft. where it forms a bond breaker that helps prevent the imprinting tools or texture rollers from sticking to the concrete surface. The surface should never be troweled after the STAMPCRETE COLORED RELEASE AGENT has been applied.

STAMPCRETE COLORED RELEASE AGENT is a moisture retainer which allows only minute amounts of water of hydration to evaporate, thus curing the concrete for approximately 3 days (72 hours).

After the concrete has reached sufficient strength, the non-embedded release agent should be removed by using a garden hose and a mild water detergent solution. A medium bristled broom brushed in a circular motion can be used until the desired effect is reached. Runoff should be controlled. After removal of release, the surface should be sealed with STAMPCRETE CLEAR SOLVENT SEALER. To protect the antiquing appearance, the surface should be sealed with two coats of STAMPCRETE clear sealer applied with an airless sprayer. When sealed the color of antiquing release agent intensifies. The techniques to produce the desired effect should be determined by job site samples.

COVERAGE RATES: 800-1000
SQUARE FEET PER PAIL

SHELF LIFE: Unrestricted when kept in a dry place.

STAMPCRETE COLORED RELEASE AGENT must be stored in a dry place.

AVAILABILITY: All 10 standard colors are stock items. Custom colors are available upon request.

Minimum order of custom colors is 75 pails.

WARRANTY:

Stampcrete International LTD warrants that this product will be free from defects and will perform as represented in writing provided application of product is in accordance with manufacturer's recommendations and application instructions. Stampcrete international LTD will refund the purchase price of any product proven defective, but shall in no way be liable for indirect, consequential, special or resultant damaged, whether due to breach of warranty or negligence. Stampcrete international LTD. makes no guarantee or warranty express or implied, including without limitation, warranties of fitness or merchantability, with respect to this product.

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