



# Adding Pigments to Mortars

## TDS 108

### **COLOR PIGMENT SELECTION:**

Pigments can be added to LATICRETE® & LATAPOXY® Mortars provided the pigments are sun-fast and weather resistant. They must also be certified by the supplier to be free of water, soluble salts and unaffected by portland cement or alkali. PERMACOLOR® Select Color Kits can also be used to pigment white adhesive mortars.

Recommended pigments are mineral oxides: iron oxides (red, yellow, brown, and black); manganese dioxide (black, brown).

The actual percentage of pigment will vary depending upon the LATICRETE mortar and the pigment type, however, the amount of pigment must not exceed 10% by weight of the portland cement content of the mortar. The use of too much pigment will increase the water absorption, produce a dusty surface and generally weaken the mortar. **A test area should always be conducted prior to installation to confirm that product performance and appearance meet the requirements of the project.**

**CAUTION: NEVER USE CARBON BLACK OR LAMPBLACK PIGMENTS – THEY WILL PRODUCE A VERY WEAK, POROUS MORTAR.**

**CAUTION: TROWEL APPLIED, PIGMENTED FLOOR AND WALL COATINGS OFTEN SHOW SHADING.**

Area shading is typically caused by different rates of substrate absorption, sections being troweled more than others, temperature/humidity changes and other factors that determine the mortar cure rate. Without applying stain, sealers or wax to the coating surface, a completely uniform shade is very difficult to achieve.

To minimize area shading;

1. Mix floor and wall coating mortars with the minimum quantity of gauging liquid;
2. Coatings sprayed on walls will produce more uniform color than if applied by trowel;
3. Lighter or pastel colors show less variation than dark colors;
4. Using a LATICRETE Latex Additive helps lock in the color, reduces wash out, improves adhesion, ensures a better cure, and produces a water-resistant, non-dusting surface.

Note: The performance properties (e.g. shear bond strength, compressive strength, absorption rate, etc...) and final color of LATICRETE products incorporating pigments added in the field cannot be predicted. The physical properties of these products are dependent upon proper and consistent mix ratios, techniques, types of pigments used, and jobsite conditions. The use of color pigments in LATICRETE mortars means the sole and exclusive LATICRETE warranty, for the project, is the LATICRETE Product Warranty ([DS 230.13](#)).

### **254 Platinum (White): Mixing with PERMACOLOR® Select Color Kits**

Requires 2 PERMACOLOR Select Color Kits. (Each Color Kit contains 2 individual color packets, use all 4 color packets) Place recommended amount of water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible packet – when using the 50 lbs. (22.7 kg) bag of 254 Platinum, drop all color packs directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add 254 Platinum and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select color Kits. See [DS 677.0](#) for more information.

**257 TITANIUM™ (White): Mixing with PERMACOLOR® Select Color Kits**

Requires two (2) PERMACOLOR® Select Color Kits. (Each Color Kit contains two (2) individual color packets, use all four (4) color packets). Place recommended amount of water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible packet – when using the 25 lb. (11.3 kg) bag of 257 TITANIUM, drop all color packs directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add 257 TITANIUM and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select Color Kits. See [DS 292.0](#) for more information.

**MULTIMAX™ LITE (White): Mixing with PERMACOLOR® Select Color Kits**

Requires two (2) PERMACOLOR® Select Color Kits. (Each Color Kit contains two (2) individual color packets, use all four (4) color packets). Place recommended amount of water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible packet – when using the 25 lb. (11.3 kg) bag of MULTIMAX LITE, drop all color packs directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add MULTIMAX LITE and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select Color Kits. See [DS 328.0](#) for more information.

**Glass Tile Adhesive: Mixing with PERMACOLOR® Select Color Kits**

Requires 1 PERMACOLOR Select Color Kit (contains 2 individual color packets, use both color packets) Place recommended amount of water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible pack – when using the 25 lb. (11.3 kg) bag of Glass Tile Adhesive, drop both color packets directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add Glass Tile Adhesive and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select Color Kits. See [DS 252.0](#) for more information.

**TRI-LITE™ (White): Mixing with PERMACOLOR® Select Color Kits**

Requires two (2) PERMACOLOR® Select Color Kits. (Each Color Kit contains two (2) individual color packets, use all four (4) color packets). Place recommended amount of water in a clean mixing container. Remove color packets from the cardboard container as well as the protective plastic sleeve. The internal bag is a water dispersible packet – when using the 30 lb. (13.6 kg) bag of TRI-LITE, drop all color packs directly in to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible packet is no longer visible. Add TRI-LITE and mix as directed above. Please note that additional water may be necessary when using PERMACOLOR Select Color Kits. See [DS 320.0](#) for more information.

Technical Data Sheets are subject to change without notice. For latest revision, check our website at <https://laticrete.com>  
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