



american coating technologies
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Product Technical Data

AM 410 Water Based Concrete Colorant/Densifier

Product Description

AM 410 Water Based Concrete Colorant/Densifier is a one component UV stable water based colorant for interior or exterior concrete. This product hardens, dust-proofs and adds color to concrete. AM 410 is ideal for residential or commercial broom finish concrete including porches, driveways, patios, sidewalks and pool decks. This product is also suitable for interior concrete floors in basements or garages.

Benefits of Use

- This product is compatible with most concrete and cement compositions and is compatible with alkaline substrates
- The coloring compounds are of the type used in printing inks and exterior lithographs and as such are durable and color fast
- Contains Zero VOC's and is compliant nationwide
- All colors are compatible when mixed together and this allows for a broad color range for final color selection
- Colorant is UV color stable
- This penetrating formula is easy to use, clean and maintain
- Densifies the concrete as it colors the surface
- Sold as a concentrate for easy storage and shipment

Volatile Organic Content:

Zero

Colors Available:

Sand, Saddle Brown, Walnut, Burnt Sienna, Olive Green and Steele Blue. Many other colors are available with a lead time and minimum quantities.

Coverage Per Gallon:

The Colorant will normally cover 600—800 square feet per gallon on mechanically finished concrete and 300—400 square feet per gallon on porous concrete. Coverage can vary dependent on the concrete porosity and texture.

Packaging Information:

This product is available in a quart container (about 0.20 gallons) that when mixed with water will yield 1 gallon. Add 4 parts water to one part Concentrate by volume.

Shelf Life:

Approximately One (1) year in unopened containers when stored properly.

Finish Characteristics:

This product does not change the overall appearance of the substrate except for the addition of the effects of coloring. After the material is applied and allowed to dry, it will not be readily apparent that the application has occurred, except the concrete will be colored.

Dot Classification:

Not Regulated

Cure Schedule (70°):

After the first coat application, allow the material to dry one hour or until totally tack free before additional coats are applied. Allow the colorant to thoroughly dry before applying the Concrete Sealer.

Application Temperature:

55-80° degrees Fahrenheit.

Primer:

None required. Multiple applications of this product are recommended.

Topcoat:

This product should be coated or sealed with any suitable coating to protect and preserve the color. We recommend AM 415 Exterior Concrete Sealer.

Limitations:

The surface should be clean and dry before applying. Prevent all over-spray of Colorant from contacting only the surface to be colored as it may stain anything it comes in contact with by using appropriate paper shields, plastic coverings and tape. Always apply a test patch to determine suitability as denser substrates and substrates containing curing compounds or chemical contaminants may not allow the Colorant to penetrate the substrate properly.

Variations and inconsistent color can be expected as the penetration and tinting strength will vary from surface to surface depending on the age, porosity, smoothness, cleanliness, density and the general condition and composition of the floor. Always apply a test patch to determine color acceptance and suitability.

The Colorant can wash out over time if a suitable sealer or topical coating is not used. Resealing periodically with a suitable sealer is recommended maintenance. Always apply in thin coats, two to three coats recommended. New concrete should be cured for 28 days prior to coloring and sealing.

DO NOT back-roll or back-brush. Do not apply on rainy or foggy days. Allow for 24 hours of rain free cure. Excess moisture in the concrete can effect topcoat sealer curing properly. Product is to be applied with a suitable sprayer only.

WARNING: Keep out of the reach of children and read the MSDS and warranty and limitations to liability information before using.

Protective sealers will not prevent all stains and some shadowing may occur. Remove spills promptly for best results.

See reverse side for application instructions.

AM 410 Instructions:

1) PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 55 and 80 degree F. Keep from freezing.

2) SURFACE PREPARATION: All dirt, oil, dust, foreign contaminants, water proofing agents, waxes and laitance must be removed to assure a trouble free application. When necessary, a suitable cleaning agent is utilized prior to further surface preparation. The concrete should be properly cured for a minimum of 28 days prior to the application.

* For Porous concrete such as broom finishes or stamped concrete, power wash the surface to remove all stains or use any other suitable cleaning method. There should be no sealers or coatings present to affect surface penetration of the colorant. Any stains or contaminants not removed may cause some surface discolorations when the colorant is applied. Make sure the surface is completely dry before applying the colorant.

* For non-porous concrete (mechanically finished), the surface should be profiled with an appropriate grinder or other acceptable equipment to a 150 grit finish or equivalent. Generally, metal bond 40s and 80s are used prior to the grinding the slab with the metal bond 150 or use a swing type buffer fitted with an aggressive Strato-Grip type brush to remove the soft layer (cream). Failure to remove the soft layer could result in loss of concrete surface and color. Any stains or contaminants not removed may cause some surface discolorations when the colorant is applied. Make sure the surface is completely dry for applying the colorant.

*After the floor is cleaned properly and prepared and before application begins, the surface must be checked to insure that water can penetrate the surface. This is done by applying a teaspoon of water on the surface. If it is readily absorbed, this would be the desired effect. If the water beads up on the surface, further grinding, sanding or cleaning may be necessary.

3) PRODUCT APPLICATION: MAKE SURE THAT THE PIGMENTS IN THE CONCENTRATE IS ENTIRELY MIXED INTO THE LIQUID BEFORE USING. Mix the concentrate with the proper amount of water. This is best accomplished by adding the concentrate to a pail and by using the same empty container, add 4 containers of the water to the concentrate (4 parts water to 1 part Concentrate). Stir the mixed material well before using.

*For Porous concrete such as broom finishes or stamping, apply the material in two applications. Use a suitable fine mist pump-able sprayer or a mechanical sprayer capable of spraying a fine mist pattern. Spray the first application lightly and allow to dry for one hour or until fully tack free. Then apply the second application the same as the first coat but going in the opposite direction. Spray in circular motions for a more uniform appearance. DO NOT BROOM or BRUSH APPLY. Make sure you properly mask all adjacent surfaces to prevent unwanted staining or coloring. If a darker color is desired, wait another hour and apply a third coat. Clean the sprayer immediately after each use.

*For Non-porous concrete (Mechanically Finished), apply in two light applications. Spray the first coat using a suitable fine mist pump-able sprayer or a mechanical sprayer capable of spraying a fine mist pattern. Then apply the second application the same as the first coat but going in the opposite direction. Spray in circular motions for a more uniform appearance DO NOT BROOM or BRUSH APPLY. Make sure you properly mask all adjacent surfaces to prevent unwanted staining or coloring. If a darker color is desired, wait another hour and apply a third coat. Clean the sprayer immediately after each use.

NOTE: AM 410 will not hide cracks, blemishes, stains, or other surface irregularities. The color produced will vary from Substrate to substrate and is dependent on many intangibles such as water/cement ratio, weather, application method, concrete mix, experience of the installer, number of coats applied as well as the porosity and smoothness of the concrete. It is possible that the concrete surface will not properly accept the water based dye, always test surface prior to any application.

4) TOP COATING: This product must be sealed in order to provide long term color acceptance. un-sealed, the product will lose some coloring when cleaned and eventually will fade in color.

5) CLEANUP: Use any suitable mild detergent and water.

6) SURFACE CLEANING: Caution! Although very unlikely, some cleaners may affect the color of the surface. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

7) RESTRICTIONS: Restrict the use of the floor (colorant and sealer) to light traffic and non-harsh chemicals for 24 hours. Allow the seal coat used to properly cure before the area is opened to traffic. Keep the floor dry for this period (excluding the application of the product.)

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABILITY OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**