

# Diama-TLC Plus

Item No: DTLC – 100 – 06

## 1. Description

**DiamaPro® Diama-TLC Plus** is a complex blend of proprietary chemistries and pigment infused with Microban®, an anti-microbial additive, producing a chemically reactive coloring agent for properly prepared concrete substrates or as a primer for **DiamaPro® UV-HS Plus** that reduces the growth of bacteria and fungus.

**DiamaPro® Diama-TLC Plus** is a quick turn-around, breathable system to impart a solid, uniform color prior to the application of **DiamaPro® UV-HS Plus**, **DiamaPro® ESD Floor System** or **DiamaPro® Diama-TLP**. **DiamaPro® Diama-TLC Plus** can be a very effective coloring agent for properly prepared exterior concrete and then sealed with **DiamaPro® Diama-TLP**.

This colorant offers exceptional durability and chemically bonds to cementitious substrates. Once sealed, it takes on the performance level of the applied sealer whether it be chemical resistance, abrasion resistance or electrostatic dissipating properties.

As a primer for **DiamaPro® UV-HS Plus**, **DiamaPro® Diama-TLC Plus** can be used clear to retain a natural concrete appearance if color is not desired.

**DiamaPro® Diama-TLC Plus** cures to a extremely hard, near surface film that is UV stable. This VOC-compliant primer/colorant comes in a variety of standard colors with the ability to produce custom colors.

## 2. Recommended Uses

Grocery Stores, Parking Garages, Fire Stations, Aircraft Hangars, Automotive Dealerships, Vehicle Maintenance Areas, Healthcare, Cafeterias and

Restaurants, Correctional Institutions, Retail & Shopping Centers, Schools, Stadiums, Veterinary Clinics, Laboratories, Lobbies, Mechanical Rooms, Mezzanines, Manufacturing Facilities, Food Processing, Electronic Facilities, Cold Storage, Beverage Bottling Plants, Chemical Processing Plants, Data Centers

## KEY BENEFITS

- Chemically bonds to the substrate
- Wide spectrum of colors and clear
- Breathable
- Will not peel, flake or blister
- Dries quickly
- Low odor
- Environmentally friendly alternative to solvent colorants
- VOC compliant, may contribute to LEED points (IEQ credit)

## 3. Technical Data

### PHYSICAL PROPERTIES

Composition:	Proprietary Chemistries, Pigment
Form:	Liquid
Mix Ratio:	Single Component
Color:	Standard, Custom and Clear
Odor:	Light Polymer Odor
Total Solids:	<40%
pH:	11-12
Flash Point:	None
V.O.C. Content:	<50 g/L
Freeze point:	32°F
Viscosity:	<5500 CPS
Shelf Life:	1 year in unopened container
Cured Film:	Near Surface

## 4. Limitations

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**DiamaPro<sup>®</sup> Diama-TLC Plus** must not be allowed to freeze. If frozen, discard according to the local, state and federal regulations.

Apply only when temperatures will be above 40°F for at least 2 hours following application.

**DiamaPro<sup>®</sup> Diama-TLC Plus** is a coloring agent that will not bridge cracks or fill pits and spalls. It has no structural value. If those defects exist in the area to be colored, use the appropriate **DiamaPro<sup>®</sup> System** product to address these issues prior to applying the material.

If allowed to come in contact with glass, aluminum and some painted surfaces, **DiamaPro<sup>®</sup> Diama-TLC Plus** could have an adverse effect on these surfaces. Immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a clean cloth. Masking these surfaces prior to application is recommended.

**DiamaPro<sup>®</sup> Diama-TLC Plus** is breathable allowing moisture vapor to transmit through it. Always address the moisture vapor levels within the substrate according to the protective sealer being used.

Exceeding the recommended wet film thickness or improper surface preparation could cause craze cracking or other surface defects during the curing process. **DiamaPro<sup>®</sup> Diama-TLC Plus** has been formulated to be applied in very thin applications.

## 5. Application Procedures and Instructions

Before using this system, read not only this technical data bulletin but also the Safety Data Sheet (SDS) and label for **DiamaPro<sup>®</sup> Diama-TLC Plus** in its entirety.

**DiamaPro<sup>®</sup> Systems** highly recommends a mock-up sample installed to determine suitability. This mock-

up should be viewed by the Owner, General Contractor and the person responsible for the approval. The mock-up should be installed in the same manner and with the same equipment as the actual system.

*Coverage Rate:*

**DiamaPro<sup>®</sup> Diama-TLC Plus** 200-400 ft<sup>2</sup>/gal/coat  
*This coverage rate should be used as a guideline only as actual coverage rates will vary due to substrate porosity and desired color intensity. A uniform colored film should be produced.*

Allow a minimum 28 days cure time for new concrete prior to preparation and application.

*Tinting:* **DiamaPro Diama-TLC Plus Clear** can be custom tinted using a universal waterborne tint. The maximum dosage rate for the pigment is 12% by weight or 1.08lbs.

*Surface Preparation:* The surface must be clean, dry and free of any dirt or dust before the application of **DiamaPro<sup>®</sup> Diama-TLC Plus** is performed. The control joints must be filled with **DiamaPro<sup>®</sup> Diama-Joint Fill Plus**. If a pinhole free system is required, pre-grout the floor with **DiamaPro<sup>®</sup> Diama-Grout** before the last diamond grinding step. The method of preparing the surface is to grind with a planetary grinder and the appropriate **DiamaPro<sup>®</sup>** tooling. Once the surface has been ground and fully processed with a 80-120 grit hybrid tool, you can auto-scut the prepared area with clean water and move on to the next step.

*Mixing:* Power mix well before use. Mix for 3 minutes or until streak-free. During shipping and storage ingredients will settle to the bottom of the container and must be redistributed. If not mixed well **DiamaPro<sup>®</sup> Diama-TLC Plus** will not produce a uniform color intensity.

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When the first container is 2/3 empty, add material from the next well mixed container and power mix together. Continue this process until the project is completed. This process is very important in obtaining the most uniform color throughout the project as possible.

*Application:* Immediately after mixing, pour product into a paint tray and roll onto the surface. Use a ½” nap high quality roller cover for best results. Cut in edges and hard to reach areas using a 4” wide ½” nap roller at the same coverage rate as the main field. Apply in thin, even coats and back-roll eliminating puddles and roller marks. A minimum of 2 coats is typically required; light colors will require additional coats beyond the normal two. Each coat must dry completely before next coat is applied; dry time is about 1 hour.

Once the colorant has been allowed to dry for two hours, apply **DiamaPro<sup>®</sup> UV-HS Plus**, **DiamaPro<sup>®</sup> Diama-ESD Floor System** or **DiamaPro<sup>®</sup> Diama-TLP Plus** according to their most current technical data bulletin.

When using **DiamaPro<sup>®</sup> UV-HS Plus** as the protective coating and a second coat is required for additional protection, the first coat must be screened with a 60 grit black screen.

*Clean Up:* Use soap and warm water to clean tools and equipment while still in a wet state. **DiamaPro<sup>®</sup> Diama-TLC Plus** is nontoxic and environmentally safe but it is alkaline: high pH level. Allow leftover material to dry into a solid state or induce **DiamaPro<sup>®</sup> Slurry Sponge** prior to disposal. Always discard in accordance to local, state and federal regulations. Do not pour into water system, sewer systems or storm drains.

## 6. Availability

**DiamaPro<sup>®</sup> Diama-TLC Plus** is only available through **DiamaPro<sup>®</sup> Systems** Authorized Distributors and Applicators. Packaged in 1 and 5-gallon units. For a list of Authorized Distributors or Certified Applicators please contact **DiamaPro<sup>®</sup> Systems**.

## 7. Conditions of Sale / Limited Warranty

**DiamaPro<sup>®</sup> Systems** warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. In as much as the use of **DiamaPro<sup>®</sup> Systems’** product by others and other factors affecting product performance are beyond **DiamaPro<sup>®</sup> Systems’** control, **DiamaPro<sup>®</sup> Systems** does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose.

SHOULD ANY **DiamaPro<sup>®</sup> Systems’** PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, **DiamaPro<sup>®</sup> Systems’** WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF DIAMAPRO SYSTEMS’ PRODUCTS TO PERFORM AS WARRANTED AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

**DiamaPro<sup>®</sup> Systems** does not authorize any person to assume any other liability in connection with the sale or use of its products unless specifically authorized by **DiamaPro<sup>®</sup> Systems** in writing.

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## 8. Technical Services

The **DiamaPro<sup>®</sup> Systems** office offers assistance with specifications, performance test data and field services.

## 9. Disclaimer

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers.

The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products.

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