



Diamapro-TLC Select

Item No: DPTLCS – 100 – 06

1. Description

Diamapro® Diamapro-TLC Select is a blend of organic chemistries and pigment producing a chemically reactive bond coloring agent for properly prepared concrete substrates.

Diamapro® Diamapro-TLC Select is a breathable system to impart a solid, uniform color prior to the application of a topical protective layer. **Diamapro® Diamapro-TLC Select** can be a highly effective coloring agent for properly prepared exterior concrete and then sealed with the appropriate **Diamapro® Sealer**.

This colorant chemically bonds to cementitious substrates. Once the cured colorant is sealed, it takes on the performance level of the applied sealer whether it be chemical resistance, abrasion resistance or Electro Static Dissipating properties.

Diamapro® Diamapro-TLC Select cures to a near surface semi-film that is UV stable. This VOC-compliant colorant comes in a variety of standard colors with the ability to produce custom colors.

2. Recommended Uses

Grocery Stores, 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, and Data Centers.

KEY BENEFITS

- Chemically bonds the to the substrate
- Wide spectrum of colors and clear
- Breathable
- Low odor
- Environmentally friendly alternative to solvent-borne colorants

- VOC compliant, contributes to LEED points (IEQ credit)
- Approved Protective Sealers
 - **Diamapro® UV-HS Plus**
 - Heavy duty interior
 - **Diamapro® Diamapro-TLP**
 - Exterior/interior medium duty
 - **Diamapro® Diamapro-ESD**
 - Electro Static Dissipation
- *It is required, when using a nonapproved Diamapro® protective sealer, to evaluate for compatibility/suitability before installation.*

3. Technical Data

PHYSICAL PROPERTIES

Composition:	Organic Chemistries, Pigment
Mix Ratio:	Single Component
Color:	Standard and Clear
Vapor Permeability	75-85 perms
Odor:	Light Polymer Odor
pH:	11-11.5
Flash Point:	None
V.O.C. Content:	<1 g/L
Freeze point:	32° F
Shelf Life:	1 year unopened
Packaging	1 and 5 gallon units

4. Limitations

Diamapro® Diamapro-TLC Select must not freeze. If frozen, discard according to the local, state, and federal regulations.

The minimum 12-hour cure time before applying the protective coating/sealer **MUST** be followed. If not, the **Diamapro® Diamapro-TLC Select** will not cure properly and possibly delaminate.



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Apply only when surface and ambient temperatures are above 50°F for a minimum of the first 12 hours following application.

Diamapro® Diamapro-TLC Select must be sealed with an approved **Diamapro® Systems** sealer.

Diamapro® Diamapro-TLC Select is a coloring agent only and will not bridge cracks or fill pits and spalls. It has no structural value. If defects exist in the coated area and required to fill them, use the appropriate **Diamapro® System** product to address these issues prior to applying the material.

If allowed to contact glass, aluminum, and painted surfaces, **Diamapro® Diamapro-TLC Select** could have an adverse effect on these surfaces. Immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a clean cloth. Mask these surfaces prior to application.

Diamapro® Diamapro-TLC Select is breathable allowing moisture vapor to transmit through it. Always address the moisture vapor levels using the appropriate protective sealer.

Exceeding the recommended wet film thickness or improper surface preparation could cause craze cracking or other surface defects during the curing process. Apply **Diamapro® Diamapro-TLC Select** in thin applications. Always follow the re-coat time for each step before continuing with the next coat.

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® Diamapro-TLC Select** in its entirety. **Diamapro® Systems** highly recommends a mock-up sample installed to determine suitability. The mock-up should be approved by the Owner, General Contractor, and personnel responsible for the

approval. Install the mock-up in the same manner and with the same equipment as the actual system.

Coverage Rate: 400-500 ft²/gal/coat

This coverage rate is a guideline only as actual coverage rates will vary due to substrate porosity, humidity level, substrate and ambient temperature and desired color intensity.

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

Surface Preparation: The surface must be clean, dry, and free of any dirt or dust before the application of **Diamapro® Diamapro-TLC Select**. Fill all control joints with **Diamapro® Diamapro-Joint Fill Plus**. If a pinhole free system is desired, pre-grout the floor with **Diamapro® Diamapro-Grout** before the last grinding step. If there are large spalls, these must be filled with cement-base repair material. The method of preparing the surface is to initially grind with a planetary grinder fitted with the appropriate **Diamapro®** metal bond tooling. For the final grind, fully process the surface with a 70-grit metal bond tool, auto-scrub removing all grinding dust and then allow to dry.

Mixing: Power mix well before use. Mix for 3 minutes or until streak-free. During shipping and storage ingredients will settle and must be re-distributed. If not mixed well **Diamapro® Diamapro-TLC Select** will not produce uniform color intensity.

During application, when the first container is two-thirds empty, add material from the next well mixed container and power mix together. Continue this process throughout the project. This process is especially important in obtaining the most uniform color throughout the project as possible.

Roller Application: Immediately after mixing, pour product into a paint tray and roll onto the surface.



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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.

Spray Application: Airless sprayer should produce 2,000 psi in spray pressure. Remove the filters in the pump and gun. Start with a .025 tip. If a larger or smaller tip is needed, gradually increase, or decrease in size. If an ultra-fine tip (.017 or smaller) is required, the material can be strained with a paint strainer to remove the larger silica particles to reduce clogging.

Apply in thin, even coats and back-roll eliminating puddles and roller marks. Two coats are required. Apply each coat in a perpendicular direction to the previous one. Light colors might require an additional coat beyond the two. Each coat must dry completely before applying the next coat; dry time is about 4 hours in normal conditions.

Once the final coat of colorant has dried for a minimum 12 hours, apply one of the approved **Diamapro® Systems Sealer** according to their most current technical data bulletin.

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

6. Availability

Diamapro® Diamapro-TLC Select is only available through **Diamapro® Systems** Authorized Distributors and Applicators. Packaged in 1 and 4-gallon units. For a list of Authorized Distributors or Trained Applicators please contact **Diamapro® Systems**.

7. Conditions of Sale / Limited Warranty

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8. Technical Services

The **Diamapro® Systems** office aids with specifications, performance test data and field services.

9. Disclaimer

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