



Diamapro-Cryl

Item Number: DPDC – 100-01

DESCRIPTION

Diamapro® Diamapro-Cryl is a medium-solids, UV-resistant, blended polymer that provides durable clear, Translucent and pigmented finish for concrete, wood, and masonry. Available in Gloss or Low Gloss, it has a long-wet edge to reduce risk of brush and roller marks.

ADVANTAGES

- Meets USDA, FDA, EPA, and SCAQMD Standards
- Eligible for LEED Points: Made in California from Partially Recycled Materials
- Adhesion to Concrete, Wood, Metal, Non-glazed Tiles
- Antibacterial
- Low Maintenance
- Low Odor
- Thermal Shock Resistance
- UV Resistance
- Waterproofing

SUGGESTED USES AND APPLICATION AREAS

- Concrete, masonry, and wood surface sealer
- Primer, Topcoats
- Interior/exterior
- Vertical Surfaces
- Industrial, Healthcare, Commercial, Government, Institutional, and Residential

Diamapro® AVAILABLE SYSTEMS

- Diamapro® Diamapro-Deck DTC
- Diamapro® Diamapro-Deck DTW

FINISH AND COLOR

- Gloss or Low Gloss Clear
- Translucent When Pigmented

PRECAUTIONS AND LIMITATIONS

- DO NOT apply single coat greater than 10 mils thick (160 SF per gallon).
- DO NOT let material puddle on floor.
- Complete onsite mockups to ensure desired results are achieved.
- Application temperatures
 - When temperatures increase or humidity decreases, material cures faster.
 - When temperatures decrease or humidity increases, material cures slower.
 - If application temperatures are outside of those recommended, contact your Diamapro® Technical Representative.
 - Apply material when temperature is decreasing – adhere to the Diamapro® Dew Point Calculation Chart.
- DO NOT apply under direct sunlight.
- DO NOT install under inclement weather conditions.



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Item Number: DPDC – 100-01

COMPONENTS

- Standard Kit
 - Clear Base – 5-gal.
 - Accent Base – 5-gal. (Deep, Medium, Accent)
 - Colorant – 16 oz.

SAFETY AND TESTING

- Safety
 - Personal protective equipment and safety conditions must be worn when installing the systems.
 - Review all relevant and current documentation including Safety Data Sheets.
- Testing: Before installation
 - Test and look for any unknown site conditions and/or defects.
 - To ensure desired results are achieved, the system should be tested in a small area on site before full installation begins.

STORAGE AND APPLICATION TEMPERATURES

Ideal Storage Environment	Dry, Out of Direct Sunlight, 60-80°F
Material Temperature During Application	50-70°F and 5°F Above Dew Point
Minimum Substrate Temperature During Application	5°F Above Dew Point

AVERAGE APPLICATION TIME

Diamapro® Diamapro-Cryl (All Bases)

Ambient Temperature	35-100°F <80% RH	50°F 50% RH	70°F 50% RH	100°F 50% RH
Working Time	20-25 min.	30-35 min.	20-25 min.	10-15 min
Recoat Window	2-48 hrs.	2-48 hrs.	2-48 hrs.	2-48 hrs.
Return to Service (Foot Traffic)	24-48 hrs.	24-48 hrs.	24-48 hrs.	24 hrs.
Full Cure (Vehicle Traffic)	7 days	7 days	7 days	7 days

SURFACE PREPARATION

- The substrate must be sound.
- All necessary repairs have been completed.
- The substrate must be clean, dry, and free of any bond inhibiting contaminants.
- When applying directly over concrete, the substrate must be mechanically profiled to ICRI CSP value.
- Different projects require a different CSP level. Contact your Diamapro® Technical Representative.
- Adhere to International Concrete Repair Institute current standards.



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MIXING

Standard Kit Mix Ratio	5-gal. WB Base, 16 oz WB Colorant
Colorant	16 oz.
Matting Additive	1-3 lbs. per gal
Anti-Slip Bead 50, Bead 100 and Tex 50	12-16 oz. per gal
Mixing Drill	Low-RPM, low-torque drill with Jiffler double-bladed mixer
Mixing Tool(s)	Paint mixer stick
Mixing Directions	Mix base and colorant for 5 minutes or until color is uniform
Mixing Directions with Matting Additive	Combine and mix additive with part A before adding any other parts and mix until consistency is uniform throughout
Mixing Directions When Combining with Water	Add water to Acrylic Sealer and mix until consistency and color are uniform.

COVERAGE RATE

Primer Coat	250-300 sq.ft./gal.
Primer / Topcoat with Anti-Slip	150-200 sq.ft./gal.
Topcoat	150-200 sq.ft./gal.
Architectural Spray Applied	250-300 sq.ft./kit

Coverage Rates

- Are for estimating purposes only.
- Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen jobsite conditions may affect actual product yields
- Coverage rates are the responsibility of the installer.

PROPERTIES WHEN FULLY CURED

Diamapro® Diamapro-Cryl (All Tinted Bases)

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	70 mg loss
Abrasion Resistance with Anti-Slip	ASTM D4060	40-60 mg loss
Adhesion Strength	ASTM D4541	>500 psi, concrete failure
Compressive Strength	ASTM C579	7,000 psi
Flame Spread/ Critical Flux	ASTM E648	Class 1
Flame Spread/ Rate of Burning	ASTM D635	Self-extinguishing
Flexural Modulus of Elasticity	ASTM C580	3.5 x 10 ⁶ psi
Flexural Strength	ASTM C580	2,700 psi
Hardness (Shore D)	ASTM D2240	80
Impact Resistance	ASTM D2794	>160 in-lbs
Indoor Air Quality	CA 01350	Compliant
Linear Shrinkage	ASTM C531	0.20%
Microbial Resistance	ASTM G21	Passes, 0 growth
Moisture Vapor Permeance	ASTM E96	0.15 perms
Tensile Strength	ASTM C307	2,000 psi
Thermal Coefficient of Linear Expansion	ASTM C531	2.0 x 10 ⁻⁵ in/in/°F
Thermal Shock Resistance	ASTM C484	50 cycles, no cracking
Water Absorption	ASTM C413	<0.10%



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Diamapro® Diamapro-Cryl (Clear Base)

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	40 mg loss
Abrasion Resistance with Anti-Slip	ASTM D4060	24-30 mg loss
Flame Spread/ Critical Flux	ASTM E648	Class 1
Flame Spread/ Rate of Burning	ASTM D635	Self-extinguishing
Indoor Air Quality	CA 01350	Compliant
Microbial Resistance	ASTM G21	Passes, 0 growth
Moisture Vapor Emission Rate	ASTM F1869	<3 lbs.
Moisture Vapor Permeance	ASTM E96	0.08 perms
Relative Humidity	ASTM F2170	<80%
UV Resistance	ASTM D4587	Level 1
Water Absorption	ASTM D570	<0.05%

CHEMICAL AND STAIN RESISTANCE

1 = Best for chemical resistance: No adverse effects; Must remove within 24 hours.

2 = Low potential for stain: No adverse effects: Must be removed within 24 hours.

3 = High potential for staining: Must be removed within 24 hours of exposure.

NR = Not recommended

Colorant

- May affect working times
- May reduce chemical resistance
- May increase potential for stain.
- Coatings tested at ambient temperature over 1-3 days' exposure to chemical.

Acetic Acid (Component of Vinegar), 10%	1	Hydrofluoric Acid, 10%	NR
Acetic Acid, 30%	NR	Hydrofluoric Acid, 30%	NR
Acetone	NR	Hydrogen Peroxide, 10%	NR
Ammonia, 30%	NR	Hydrogen Peroxide, 50%	NR
Ammonium Hydroxide, 30%	NR	Iodine, 2%	3
Antifreeze (Coolant)	2	Isopropyl Alcohol	NR
Benzene (Component of Crude Oil)	3	Jet Fuel	1
Benzyl Alcohol	NR	Lactic Acid, 30% (Dairy Facility)	NR
Betadine, 11%	NR	Lime Juice	2
Boric Acid, 4%	NR	Magnesium Hydroxide	1
Brake Fluid, DOT 3	1	MEK (Methyl Ethyl Ketone)	NR
Chromic Acid, 10%	3	Methanol	NR
Chromic Acid, 30%	NR	Methylene Chloride	NR
Citric Acid, 30%	1	MIBK (Methyl Isobutyl Ketone)	NR
Ethanol, 95%	NR	Mineral Oil	1
Ethyl Acetate, 99% (Food/Beverage Facility)	NR	Motor Oil, SAE 30	1
Formaldehyde, 37%	NR	Mineral Spirits	NR
Premium Gasoline	1	Mustard, Yellow	3
Hydraulic Fluids (Machinery, Automobile, Aviation)	2	Oleic Acid	1
Hydrochloric Acid, 10%	3	Oxalic Acid, 10%	1
Hydrochloric Acid, 30%	NR	Phosphoric Acid, 20%	NR
Nitric Acid, 30%	NR	Xylene	NR



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Potassium Hydroxide, 30%	3	Tannic Acid, 20%	3
Propylene Glycol	1	Tartaric Acid, 10%	2
Silver Nitrate, 20% (Photo Labs)	NR	Transmission Fluid	2
Sodium Chloride, 20%	1	Urine, Dog or Cat	2
Sodium Hydroxide (Caustic Soda), 50%	1	Urea (Nitrogen-Rich Fertilizer)	1
Sodium Hypochlorite (Bleach), 10%	NR	Vinegar, Distilled	1
Sodium Hypochlorite (Bleach), 30%	NR	Water (Hard Water from Well)	1
Sodium Persulfate (Bleaching and Oxidizing Agent)	3	Whisky	2
Sulfuric Acid, 37% (Battery Acid)	NR	Wine, Cabernet Sauvignon	2

To ensure desired results are achieved, products should be tested on site before installation.

Availability: Diamapro® Diamapro-Cryl is only available through Diamapro Systems® Authorized Distributors and Applicators. For a list of Authorized Distributors please contact Diamapro Systems®.

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