



# Diamapro-Spartic 85

Item Number: DCDS85 – 100-01

**Diamapro® Diamapro-Spartic 85** is a UV-resistant, 2-component, polyaspartic system. It can be applied in areas where temperatures are high or low. Available in fast and slow set formulas, it offers cure rate options to fit the project and skill level of the installer. It's easy to install with a long working time version, decreasing the chance of roller marks. The fast cure version is used to complete projects faster when there is a time sensitive schedule. At full cure, this system withstands extreme temperatures from 0 to 200°F.

## ADVANTAGES

- Fast and Cure formulations
- 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
- Easy Installation
- Extreme Temperature Resistance, 0–200°F
- Low Maintenance
- Scratch Resistance
- UV Resistance
- Waterproofing

## SUGGESTED USES

- Primer
- High UV-Resistant Topcoat
- Decorative Systems
- Industrial, Healthcare, Commercial, Government, Institutional, and Residential

## Diamapro® COATING SYSTEMS AVAILABLE

- Diamapro® Diamapro-Flake System
- Diamapro® Diamapro-Quartz System
- Diamapro® Diamapro-Metallic System
- Diamapro® Diamapro-Flow System

## FINISH AND COLOR

- High Gloss, Clear
- Opaque with Colorant

## PRECAUTIONS AND LIMITATIONS

- Prime Coat required
  - Substrate is highly absorbent.
  - When outgassing is suspected or prevalent
  - When concrete is very porous or in poor condition.
- All concrete repairs must be completed before installing any system.
- DO NOT apply a single coat greater than 14 mils thick (114 square feet per gallon).
- DO NOT allow material to puddle on the floor.
- Application temperatures:
  - For best results, apply when application temperatures are high.
  - Material cures faster as temperature and humidity increase



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- Material cures slower in lower temperatures.
- If application temperatures exceed those recommended, contact your Diamapro® Technical Representative.
- Apply material when temperature is decreasing – adhere to the Diamapro® Dew Point Calculation Chart available at [DiamaproSystems.com](http://DiamaproSystems.com).
- DO NOT apply under direct sunlight.
- DO NOT install under inclement weather conditions.
- Complete samples and onsite mockups to ensure desired results are achieved.

## COMPONENTS

### Diamapro® Diamapro-Spartic 85 Slow and Fast

- Part A: 5 gal.
- Part B: 5 gal.

*Larger kits may be available through Diamapro Systems® Distributor.*

## SAFETY AND TESTING

- Safety
  - Personal protective equipment and safety conditions must be considered before using any product.
  - Review all relevant and current documentation including Safety Data Sheets at [DiamaproSystems.com](http://DiamaproSystems.com).
- Testing Before installation
  - Test and look for any unknown site conditions and/or defects.
  - To ensure desired results are achieved, a mockup should be installed 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-Spartic 85 Slow

<b>Ambient Temperature</b>	<90°F, <80% R	50°F, 30% RH	50°F, 75% RH	70°F, 50% RH	90°F, 20% RH	90°F, 80% RH
<b>Working Time</b>	15-25min	NR	NR	15-25 min	NR	10-15 min
<b>Recoat Window</b>	8-36 hrs.	NR	NR	8-36hrs	NR	3-24 hrs.
<b>Return to Service (Foot Traffic)</b>	36 hrs.	NR	NR	36 hrs.	NR	24 hrs.
<b>Full Cure</b>	7 days	NR	NR	7 days	NR	7 days

\*NR=Not Recommended

### Diamapro® Diamapro-Spartic 85 Fast



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<b>Ambient Temperature</b>	<80°F, <35% R	50°F, 30% RH	50°F, 75% RH	70°F, 50% RH	90°F, 20% RH	90°F, 80% RH
<b>Working Time</b>	15-25min.	20-25 min.	15-20 min.	15-20 min.	10-15 min.	5-10. min
<b>Recoat Window</b>	4-24 hrs.	6-24 hrs.	4-24 hrs.	4-24 hrs.	3-24 hrs.	1-6 hrs.
<b>Return to Service (Foot Traffic)</b>	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.
<b>Full Cure</b>	5 days	7 days	7 days	5 days	5 days	5 days

## SURFACE PREPARATION

- Substrate Condition
- The substrate must be sound.
  - All necessary concrete repairs have been completed.
  - Must be clean, dry, and free of any bond inhibiting contaminants,
  - Must be dry.
- When applying directly over concrete
  - The substrate must be mechanically profiled to ICRI CSP 3.
  - Different projects may require a different concrete surface profile.
  - Adhere to International Concrete Repair Institute current standards.

## MIXING

<b>Standard Kit Mix Ratio</b>	A: B = 5 gal:5 gal
<b>Colorant</b>	16 oz per 2 mixed gal.
<b>Viscosity Reducer</b>	1-2 qt. per 2 mixed gal.
<b>Mixing Drill</b>	Low-RPM, high-torque drill - Jiffy double-bladed mixer
<b>Mixing Drill Combining with Large Aggregates</b>	High-RPM, high-torque drill - Jiffy double-bladed mixer
<b>Mixing Directions</b>	Mix Part A until color and consistency are uniform. Add Part B and mix for 2 minutes or until color and consistency are uniform.
<b>Mixing Directions with Colorant, Pigment, or Matting Additive</b>	Mix Part A with additive until color and consistency are uniform. Add Part B and mix for 2 minutes or until color and consistency are uniform.
<b>Mixing Directions with Viscosity Reducer, Aggregate, or Anti-Slip</b>	Mix Part A and Part B for 1 minute or until color and consistency are uniform. Add additives and mix for 1 minute until color and consistency are uniform.

## APPLICATION



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## Coverage Rates

Application	Coverage Rate
Base Coat, 8-12 mils	135–200 SF/gal
Broadcast System Grout Coat Over 1/4" Color Chip	125–200 SF/gal
Broadcast System Grout Coat Over 30-Mesh Industrial Sand	90–100 SF/gal
Broadcast System Grout Coat Over F-grade or 40-S Color Quartz	90–100 SF/gal
Prime Coat	300–400 SF/gal
Topcoat 4-5 mils	300–400 SF/gal
Topcoat 8-12 mils	135–200 SF/gal

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

Keep a wet edge while applying product. Wear spiked shoes when walking on material. For more applications and coverage rates, see [www.diamaprosystems.com](http://www.diamaprosystems.com).

## PROPERTIES WHEN FULLY CURED

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	15 mg loss
Adhesion Strength	ASTM D4541	400 psi, 100% Concrete failure
Adhesion Strength	ASTM D4541	n/a, vinyl failure
Adhesion Strength	ASTM D4541	n/a, natural quartz failure
Adhesion Strength	ASTM D4541	n/a, color quartz failure
Coefficient of Friction - Dry	ASTM D2047	0.7
Coefficient of Friction - Wet	ASTM D2047	0.6
Flame Spread/ Critical Flux	ASTM E648	Class 1
Flame Spread/ Rate of Burning	ASTM D635	Self-extinguishing
Flexibility/ Mandrel Bend	ASTM D522	Passes 1/8-in.
Gloss, 60°	ASTM D523	90
Hardness (König Hardness)	ASTM D4366	150
Impact Resistance	ASTM D2794	120 in-lbs.
Indoor Air Quality	CA 01350	Compliant
Microbial Resistance	ASTM G21	Passes, 0 growth
Tensile Elongation at Break	ASTM D2370	5%
Tensile Strength	ASTM D2370	6,000 psi
UV Resistance	ASTM D4587	High (Level 3)
Water Absorption	ASTM D570	<0.05
Yellowing Resistance	ASTM G154	< 3.0 ΔE, gray (color tested for visible changes)

## CHEMICAL AND STAIN RESISTANCE



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1 = Best for chemical resistance: No adverse effects; Remove within 24 hours.  
 2 = Low potential for stain: No adverse effects: Removed within 24 hours.  
 3 = High potential for stain or degradation: Must be removed within 24 hours of exposure.  
 NR = Not recommended

Acetic Acid 10%	1	Methanol	1
Acetic Acid, 30%	2	Methylene Chloride	NR
Acetone	1	MIBK (Methyl Isobutyl Ketone)	1
Ammonia, 30%	1	Mineral Oil	1
Ammonium Hydroxide, 30%	1	Motor Oil, SAE 30	1
Antifreeze (Coolant)	1	Mineral Spirits	1
Benzene (Component of Crude Oil)	1	Mustard, Yellow	1
Benzyl Alcohol	1	Nitric Acid, 30%	NR
Betadine, 11%	1	Oleic Acid	1
Boric Acid, 4%	1	Oxalic Acid, 10%	1
Brake Fluid, DOT 3	1	Phosphoric Acid, 20%	2
Chromic Acid, 10%	1	Potassium Hydroxide, 30%	1
Chromic Acid, 30%	1	Propylene Glycol	1
Citric Acid, 30%	1	Silver Nitrate, 20% (Photo Labs)	3
Ethanol, 95%	1	Hydraulic Fluid (Aviation), Skydrol LD-4	2
Ethyl Acetate, 99%	1	Sodium Chloride, 20%	1
Formaldehyde, 37%	3	Sodium Hydroxide (Caustic Soda), 50%	1
Premium Gasoline	1	Sodium Hypochlorite (Bleach), 10%	1
Hydraulic Fluids	2	Sodium Hypochlorite (Bleach), 30%	2
Hydrochloric Acid, 10%	1	Sodium Persulfate	3
Hydrochloric Acid, 30%	3	Sulfuric Acid, 37% (Battery Acid)	2
Hydrofluoric Acid, 10%	1	Tannic Acid, 20%	3
Hydrofluoric Acid, 30%	3	Tartaric Acid, 10%	1
Hydrogen Peroxide, 10%	1	Transmission Fluid	1
Hydrogen Peroxide, 50%	1	Urine, Dog or Cat	1
Iodine, 2%	3	Urea (Nitrogen-Rich Fertilizer)	1
Isopropyl Alcohol	2	Vinegar, Distilled	1
Jet Fuel	1	Water (Hard Water from Well)	1
Lactic Acid, 30% (Dairy Facility)	3	Whisky	1
Lime Juice	1	Wine, Cabernet Sauvignon	1
Magnesium Hydroxide	1	Xylene	1
MEK (Methyl Ethyl Ketone)	1		

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

## Colorants

- May affect working times.
- May reduce chemical resistance.
- May increase potential for staining.

**Availability: Diamapro® Diamapro-Spartic 85** is only available through Diamapro® Systems Authorized Distributors and Applicators. Packaged in 5-gallon units. For a list of Authorized, please contact Diamapro® Systems.

**Conditions of Sale / Limited Warranty:** Diamapro® Systems warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for



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