



Diamapro-Thane NGU

Item Number: DPDTNGU – 100-01

Diamapro® Diamapro-Thane NGU is a 2-component system with an option of a fast-cure (FC) or slow-cure (SC) hardener (Part B). With two different controlled set times, **Diamapro® Diamapro-Thane NGU** can meet the needs of any project and environmental condition.

Perfect for high traffic areas like forklift loading zones, drive aprons, and commercial walkways, this UV-resistant coating is designed for high build applications (up to 20 mils) and can be used as a prime, body, and top when simplicity best suits the project.

ADVANTAGE

- Meets USDA, FDA, EPA, and SCAQMD Standards
- Adhesion to Concrete, Wood, Metal, Non-glazed Tiles
- Antibacterial
- Fast Cure can Be Applied at or Below 40°F
- Eligible for LEED Points: Made in California from Partially Recycled Materials
- High Impact Resistance
- High Traffic and Hot Tire Resistance
- Low Maintenance
- Low Odor
- Scratch Resistance
- UV Resistance
- Waterproofing

SUGGESTED USES AND APPLICATION AREAS

- Prime, Base, and Topcoats
- Vertical Surfaces

SUGGESTED USES & APPLICATION AREAS

- High Chemical Resistant Topcoat.
- High Abrasion Resistant Topcoat.
- High UV-Resistant Topcoat.
- Auto Centers and Repair.
- Aircraft Hangars.

USED IN Diamapro System SYSTEMS'

- Diamapro® Diamapro-Flake System
- Diamapro® Diamapro-Quartz System
- Diamapro® Diamapro-Industrial Quartz System
- Diamapro® Diamapro-ESD Coating System
- Diamapro® Diamapro-Metallic System

FINISH AND COLOR

- Gloss, Clear
- Opaque when Pigmented

PRECAUTIONS AND LIMITATIONS

- Prime Coat
 - May be required if substrate is highly absorbent.
 - May be required if outgassing is suspected or prevalent.

Diamapro-Thane NGU

Item Number: DPDTNGU – 100-01

- May be required if concrete is very porous or in poor condition.
- All concrete repairs must be completed before installing any system.
- DO NOT apply single coat greater than 20 mil thick (80 square feet per gallon).
- DO NOT apply directly over moisture sensitive concrete.
- DO NOT apply under direct sunlight.
- DO NOT install under inclement weather conditions.
- DO NOT let material puddle on floor.
- Complete samples and onsite mockups to ensure desired results are achieved.
- **Application temperatures**
 - Material cures faster as temperature and humidity increase.
 - Material cures slower as temperature and humidity decrease.
 - Application times are based on test results compiled by lab technicians in a controlled setting.
 - 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.
- **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.
 - Are the responsibility of the installer.

COMPONENTS

3 gal. Kit

- | | |
|---------------------------------------|---------------------------------------|
| ■ Diamapro® Diamapro-Thane NGU | ■ Diamapro® Diamapro-Thane NGU |
| ■ Resin - Part A: 2 gal. | ■ Slow Cure - Part B: 1 gal. |
| | ■ Fast Cure – Part B: 1 gal. |

SAFETY AND TESTING

- **Safety**
 - Personal protective equipment and safety conditions must be used with all products.
 - Review all relevant and current documentation including Safety Data Sheets at **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
Recommended Application Temperature	60-80F, <55% RH (Relative Humidity)

Diamapro-Thane NGU

Item Number: DPDTNGU – 100-01

Average Application Time

Diamapro® Diamapro-Thane HPU (Satin)

Ambient Temperature	60-80°F, <70% RH	50°F, 30% RH	50°F, 75% RH	70°F, 50% RH	90°F, 20% RH	90°F, 80% RH
Working Time	15-25min	15-20 min.	10-15 min.	15-20 min.	10 min.	15 min. **
Recoat Window	4-6 hrs.	3-6 hrs.	2-6 hrs.	3-6 hrs.	2-6 hrs.	2-6 hrs.
Return to Service (Foot Traffic)	12 hrs.	12 hrs.	12 hrs.	12 hrs.	12 hrs.	12 hrs.
Full Cure (Vehicle Traffic)	7 days	5-7 days	5-7 days	5-7 days	5-7 days	5-7 days

** Must add viscosity reducer.

Diamapro® Diamapro-Thane HPU (Gloss)

Ambient Temperature	60-90°F, <70% RH	50°F, 30% RH	50°F, 75% RH	70°F, 50% RH	90°F, 20% RH	90°F, 80% RH
Working Time	20 min.	25-30 min.	10-15 min.	20 min.	15 min.	15 min. **
Recoat Window	4-6 hrs.	3-6 hrs.	2-6 hrs.	3-6 hrs.	2-6 hrs.	2-6 hrs.
Return to Service (Foot Traffic)	12 hrs.	12 hrs.	12 hrs.	12 hrs.	12 hrs.	12 hrs.
Full Cure (Vehicle Traffic)	5 days	5 days	5 days	5-7 days	5 days	5 days

** Must add viscosity reducer.

SURFACE PREPARATION

- Substrate Condition
 - The substrate must be sound.
 - All necessary concrete repairs have been completed.
 - Must be clean.
 - Must be dry.
 - Must be free of any bond inhibiting contaminants.

MIXING

Mix Ratio	Part A: 2 gal. Part B: 1 gal.
Poly Colorant	16 oz per standard kit
Viscosity Reducer	1-2 qt. per kit
Fumed Silica	2 qt.
Mixing Drill	Low-RPM, low-torque drill with Jiffy double-bladed mixer
Mixing Directions	Mix A until color and consistency are uniform. Add B and continue to mix for 2 min or until color and consistency are uniform.
Mixing Directions with Colorant	Mix A with colorant until color and consistency are uniform. Add B and continue to mix for 2 min or until color and consistency are uniform.
Mixing Directions with Viscosity Reducer	Mix A with colorant until color and consistency are uniform. Add B and continue to mix for 2 min or until color and consistency are uniform.
Mixing Directions with Anti-Slip	Mix A alone or with or without colorant until color and consistency is uniform. Add B and continue to mix for 1 min. Add additive and continue to mix for 1 min or until color and consistency are uniform.

Diamapro-Thane NGU

Item Number: DPDTNGU – 100-01

COVERAGE RATE

Diamapro® Diamapro-Thane NGU

Application	Coverage Rate
Prime Coat	300 sq.ft./gal.
Base Coat, 8-12 mils	100-150 sq.ft./gal.
Metallic Base Coat, 15-20 mils	80-105 sq.ft./gal.
Broadcast System Cap Coat Over 1/4" Color Chip	125-200 sq.ft./gal.
Broadcast System Cap Coat Over F-Grade, 40-S, or 30-Mesh Quartz or Sand	90-100 sq.ft./gal.
Vertical Coat, 12 mils	400 sq.ft./gal.

Coverage rates re for estimating purposes only.

Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen job-site conditions may affect actual product yields.

Are the responsibility of the installer.

PROPERTIES WHEN FULLY CURED

Diamapro® Diamapro-Thane NGU

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	15 mg loss
Adhesion Strength	ASTM D4541	400 psi, epoxy 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

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	■ Betadine, 11%	1
■ Acetic Acid, 30%	2	■ Boric Acid, 4%	1
■ Acetone	1	■ Brake Fluid, DOT 3	1
■ Ammonia, 30%	1	■ Chromic Acid, 10%	1
■ Ammonium Hydroxide, 30%	1	■ Chromic Acid, 30%	1
■ Antifreeze (Coolant)	1	■ Citric Acid, 30%	1
■ Benzene (Component of Crude Oil)	1	■ Ethanol, 95%	1
■ Benzyl Alcohol	1	■ Ethyl Acetate, 99%	1

Diamapro-Thane NGU

Item Number: DPDNINGU – 100-01

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

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 stain.

Availability: Diamapro® Diamapro-Thane NGU 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 which such goods are used. In as much as the use of Diamapro Systems®' product by others and other factors affecting product performance are beyond Diamapro Systems®' control, Diamapro 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 Systems® NOT MEET INDUSTRY STANDARDS, Diamapro 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



Diamapro-Thane NGU

Item Number: DPDTNGU – 100-01

REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

Diamapro 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 Systems® in writing.

Technical Services: The Diamapro Systems® office offers assistance with specifications, performance test data and field services.

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.

FOR INDUSTRIAL AND COMMERCIAL USE ONLY