Unigrip Propulsion Guard

UNIGRIP Propulsion Guard is engineered to deliver unmatched protection and performance in the harshest marine environments.

Engineered with cutting-edge composite technology, UNIGRIP delivers superior resistance to marine fouling, corrosion, cavitation, abrasion, and impact. Ensuring maximum efficiency and long-term performance. All in one advanced solution.

Experience UniGrip,
the all-in-one system for complete marine protection.

You can now find UNIGRIP at these locations in Florida:

- Merritt Marine Supply
- Amazon.com/unigrip
- World Wide Metric
- C&N Yacht Refinishing
- World Epoxy Coatings
- Dantech Group

www.dantech-group.com

Application Procedure
Propulsion Guard

UNIGRIP
DANTECH ELITE COMPOSITES

Propulsion Guard - A paint system Ideal for Propellers, Rudders and Struts:

Unigrip PG - Base Coat:

- UNIGRIP PWS 110 (Color Orange)

(Water-dilutable, non-yellowing 2K polyurethane base-coat for interior/exterior use. Provides Long-term protection against marine fouling, corrosion, and with outstanding toughness against impact, mechanical wear and chemical exposure; shock-proof performance. Odorless, non-flammable, Safe for marine life (when cured), easy to clean, and easy to apply (brush/roller/spray)—an ideal Base-Coat for long-term protection of propellers, Rudders and Shaft struts etc.)

Unigrip PG - Transparent finishing coat:

- UNIGRIP PWS 120 (Transparent Clear-coat)

(Water-dilutable, transparent, non-yellowing 2K polyurethane clear coat for interior/exterior use. Provides Long-term protection against marine fouling, corrosion, and with outstanding toughness against impact, mechanical wear and chemical exposure; shock-proof performance. Odorless, non-flammable, Safe for marine life (when cured), easy to clean, and easy to apply (brush/roller/spray)—an ideal transparent finishing layer for long-term protection of propellers, Rudders and Shaft struts etc.)

UNIGRIP PG - Base Coat, availability:

- Orange: 1.0 Quart kit: covers approx. 95 sqf/quarts at 2..3 mils (60 µm) dry layer thickness
- Orange: 1.0 gal kit: covers approx. 379 sqf/gallon at 2..3 mils (60 µm) dry layer thickness.

UNIGRIP PG - Transparent Clear-Coat, availability:

- Transparent Clear-Coat: 1.0 Quart kit: covers approx. 97 sqf/quarts at 2.0 mils (50 µm) dry layer thickness.
- Transparent Clear-Coat: 1.05 gallon kit: covers approx. 388 sqf/gallon at 2.0 mils (50 µm) dry layer thickness.

UNIGRIP PWS 110 and Unigrip PWS 120 should be stored out of direct sunlight in dry frost-free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 24 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

Surface Preparation:

- Preferred Method: Grid blasting, Sa 1 (acc. to. SSPC-SP 7)
- Substrate Roughness: 25-35µm (Light Blast Cleaning)
- Alternative (if grid blasting not possible): Mechanical cleaning Grid 150-220 (Thorough by Hand/Power Tool Cleaning)
- Pre-cleaning: Always wipe down the surface with a tack cloth to remove all sanding dust before applying the coat (Degrease with MEK or UNIGRIP Bio Cleaner); ensure surface is dry and ≥3°C above dew point
- Substrate Types: Bronze, cast iron, steel or stainless steel etc.

For best Result

UNIGRIP PG - Base Coat:

To achieve Best / optimal results:

- Apply 1st layer of approx. 2.3 mils/DFT. (Approx 4.5/WFT) or (60-65 µm/DFT. approx. 110-120 µm/WFT) per layer
- Allow 60-75 minutes cure time
- Apply final layer of base coat of approx. 2.3 mils/DFT. (Approx 4.5/WFT) or (60-65 µm/DFT. approx. 110-120 µm/WFT) for most optimal / best result
- **Please consult the Unigrip topcoat TDS for full instructions.**

For best Result

UNIGRIP PG - Transparent Finishing-Coat:

To achieve Best / optimal results:

- 2.0 mils/DFT. Approx 4.5/WFT (50-55 microns. approx. 110 microns wet) per layer
- Allow 60-75 minutes cure time
- Apply final layer of topcoat of approx. 2.3 mils/DFT. (Approx 4.5/WFT) or (60-65 µm/DFT. approx. 110-120 µm/WFT) for most optimal / best result
- **Please consult the Unigrip topcoat TDS for full instructions.**

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Mixing the UNIGRIP PG - Base Coat:
Add component B to component A. Mix intensive and mechanically till homogenous. Thereafter add water (in 3 steps) to get to the ideal viscosity for the application (see below chart)

Application Details:
- Methods: Brush, roller, air-spray, or airless spray
- Dilution for spray: 20–25% water depending on method (brush or roller reduce by 10-15% water)
- Mixing Ratio: 3:1 by weight (Base:Activator)
- Pot Life: ~2 hours @ 20°C
- Curing Time: Dust-free after approx 3 hrs. @ 20°C

Spraying:	Air-spray	Airless-spray
Pressure 1.0 1.5 mm	0.3 0.4 mPa (3-4 atm.)	8 10 mPa (80 -100 atm.)
Opening	1.0 1.5 mm	0.23 mm (0.009 inch)
Dilution	20 25% water	20% water

Mixing the UNIGRIP PG - Transparent Finishing-Coat:
Add component B to component A. Mix intensive and mechanically till homogenous. Thereafter add water (in 3 steps) to get to the ideal viscosity for the application (see below chart)

Application Details:
- Methods: Brush, roller, air-spray, or airless spray
- Dilution for spray: 20–25% water depending on method (brush or roller reduce by 15-20% water)
- Mixing Ratio: 3:1 by weight (Base:Activator)
- Pot Life: ~4 hours @ 20°C
- Curing Time: Allow minimum 7 days @ 20°C before using the spa / bath tub

Spraying:	Air-spray	Airless-spray
Pressure 1.0 1.5 mm	0.3 0.4 mPa (3-4 atm.)	8 10 mPa (80 -100 atm.)
Opening	1.0 1.5 mm	0.23 mm (0.009 inch)
Dilution	20 25% water	20% water

Estimated re-coating window Unigrip top-coat:
- Allow minimum 60-75 minutes between layers before applying the next layer, with no more than two coats applied in a single day. (dust-free after approx. 3 hours)

Waiting Longer:
- Waiting 24 hours or even longer between coats, you need to scuff sand (grid 200-320), to ensure a smooth, high-gloss and durable finish.

Estimated re-coating window Unigrip PG - transparent finishing layer (over Unigrip PG - Base coat):
- Allow minimum 8-16 hours before applying Unigrip PG - transparent finishing layer/s over Unigip PG - base coat, with no more than two coats applied in a single day. (dust-free after approx. 3 hours)

Cleaning Instructions:
- With water and afterwards with Brush thinner PU / Spray thinner PU. (Product may not be cured).